

Ambient Air Monitoring Network

Site-wide, Project-specific, and Independent Monitoring Systems

Project/Scope		Locations		COC	Frequency
		On-site	Off-site		
DOE/ODH Co-located		T7 A8 A10 A29 A36 A50 A52 A54	A3 A23 A6 A24 A9 A28 A12 A37 A15 A41A	RAD DOE/ODH	Continuous (monthly composite)
				Fluoride (15 total, all except T7, A50, A52, A54) DOE only	Weekly continuous
X-326 Demolition	Environmental	X326-A01 X326-A05 X326-A06 (Relocated) X326-A02 A72 (Air Model/Permanent)	X326-A07 X326-A08 X326-A09 X326-A10 X326-A03 X326-A04	PM2.5/PM10 (A01, A06, A72) Metals (A01,05,06,07,08,09,10+A72) PCB (A01,05,06,07,08,09,10+A72) Asbestos (A01,05,06,07,08,09,10) RAD (A01,05,06,07,08,09,10) RAD (A72) VOC (A72 only)	Continuous real-time Weekly 24-hr Bi-Weekly 24-hr <i>*(dynamic frequency based on results)</i> Weekly 10-hr Weekly 24-hr Continuous (monthly composite) Weekly 24-hr
	Radiation Protection	Mid-Field Monitors MF-01 MF-05 MF-02 MF-06 MF-03 MF-07 MF-04 MF-08 Near Field NF-01 NF-02 NF-03 NF-04 NF-05		Radiological Alpha and Beta	As determined by Radiation Protection Continuous real-time

The COC (contaminants of concern) column for the RADs sampled at the DOE/ODH Co-located locations include: Americium-241, Neptunium-237, Plutonium-238, Plutonium-239/240, Thorium-228, Thorium-230, Thorium-232, Uranium-233/234, Uranium-235/236, Uranium-238, and Technetium-99.

The RADs sampled at the X-326 Demolition locations include: Americium-241, Neptunium-237, Plutonium-238, Plutonium-239/240, Thorium-230, Uranium-233/234, Uranium-235/236, Uranium-238, and Technetium-99.

The Metals sampled at the X-326 Demolition locations include Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Lead, Manganese, Mercury, Nickel, and Selenium

The Frequency column presents a range of sampling approaches for various COCs based on the available monitoring instruments and regulatory guidance. These sampling approaches are further explained in the following bullets:

* Continuous real-time: Continuous sampling and real-time read out

* Continuous monthly composite: Continuous sampling with a sample filter collected weekly and combined into a monthly composite

* Weekly continuous: Continuous sampling with a filter sample collected once per week

* Weekly/Biweekly 10-hr/24-hr: Sampling one day during the week or every two weeks, respectively. Sampling equipment allowed to run for the designated duration (10 hours or 24 hours as indicated)