Department of Energy

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
(859) 219-4000

March 18, 2026

Ms. Grace Stutler
Ohio Environmental Protection Agency
Southeast District Office
Division of Environmental Response and Revitalization
2195 Front Street
Logan, Ohio 43138

PPPO-03-10036435-26

Ms. Melisa Witherspoon
Chief, Division of Environmental Response and Revitalization
Ohio Environmental Protection Agency
50 West Town Street, Suite 700
Columbus, Ohio 43216-1049

Dear Ms. Stutler and Ms. Witherspoon:

2025 GROUNDWATER MONITORING REPORT

Enclosed is the U.S. Department of Energy (DOE) Portsmouth/Paducah Project Office (PPPO) 2025 Groundwater Monitoring Report for the Portsmouth Gaseous Diffusion Plant, which summarizes groundwater monitoring activities during calendar year 2025. The report is submitted in accordance with the Integrated Groundwater Monitoring Plan (DOE/PPPO/03-0032&D12) approved by the Ohio Environmental Protection Agency.

If you have any questions, please contact Ryan Callihan of my staff at (740) 897-2835.

Sincerely,

MILTON LILLY

Digitally signed by MILTON LILLY
Date: 2026.03.18 12:30:11 -04'00'

Milton J. Lilly
Alternate Site Coordinator
Portsmouth/Paducah Project Office

Enclosure:
2025 Groundwater Monitoring Report

cc w/enclosure:
amber.pratt@epa.ohio.gov, Ohio EPA
april.ladd@pppo.gov, PPPO
brady.barnhart2@ports.pppo.gov, SOCCo
christopher.guilliams@pppo.gov, ETAS
christy.brown@pppo.gov, PPPO
dale.pendry@pppo.gov, ETAS
erik.olds@orem.doe.gov, PPPO
ets.support@pppo.gov
grace.stutler@epa.ohio.gov, Ohio EPA
greg.miller@pppo.gov, ETAS
harry.kallipolitis@epa.ohio.gov, Ohio EPA
jud.lilly@pppo.gov, PPPO
jyh-dong.chiou@ports.pppo.gov, SOCCo
lorna.sommer@pppo.gov, ETAS
melisa.witherspoon@epa.ohio.gov, Ohio EPA
melissa.storch@epa.ohio.gov, Ohio EPA
michael.furner@ports.pppo.gov, SOCCo
ohio epa file share
pat.timbes@ports.pppo.gov, SOCCo
portseic@ports.pppo.gov (RCRA AR Files)
rachele.strickland@pppo.gov, ETAS
robert.purtee@ports.pppo.gov, SOCCo
ryan.anderson@pppo.gov, PPPO
ryan.callihan@pppo.gov, PPPO
steve.ater@pppo.gov, PPPO
taylor.tackett@pppo.gov, ETAS
thomas.schneider@epa.ohio.gov, Ohio EPA
wendy.stewart@ports.pppo.gov, SOCCo

2025 Groundwater Monitoring Report for the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio

U.S. Department of Energy
DOE/PPPO/03-1370&D1

February 2026

This document has been approved for public release:

Richard Henderson (signature on file) 2/18/2026
Classification Office Date

2025 Groundwater Monitoring Report for the Portsmouth Gaseous Diffusion Plant Piketon, Ohio

U.S. Department of Energy
DOE/PPPO/03-1370&D1

February 2026

By
Southern Ohio Cleanup Company LLC, under
Contract 89303323DEM000089

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ACRONYMS

CMS	Corrective Measures Study
COC	contaminant of concern
CUSUM	cumulative summation
CY	calendar year
D&D	decontamination and decommissioning
DFF&O	Director's Final Findings and Orders
DOE	U.S. Department of Energy
EAB	enhanced anaerobic bioremediation
FRL	final remediation level
IGWMP	*Integrated Groundwater Monitoring Plan*
IRM	interim remedial measure
NPDES	National Pollutant Discharge Elimination System
NRD DFF&O	*The July 30, 2018 Director's Final Findings and Orders for CERCLA Actions to Restore Natural Resources*
Ohio EPA	Ohio Environmental Protection Agency
OSWDF	On-Site Waste Disposal Facility
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PK	Peter Kiewit
PORTS	Portsmouth Gaseous Diffusion Plant
PRG	preliminary remediation goal
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SOCCo	Southern Ohio Cleanup Company LLC
TCE	trichloroethene
U.S. EPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

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EXECUTIVE SUMMARY

This annual report provides the results of routine groundwater monitoring conducted during calendar year (CY) 2025 at the U.S. Department of Energy (DOE) Portsmouth Gaseous Diffusion Plant (PORTS). The report is submitted in accordance with the *Integrated Groundwater Monitoring Plan* (IGWMP), which was developed to establish groundwater monitoring requirements for PORTS. The initial IGWMP, approved by the Ohio Environmental Protection Agency (Ohio EPA), was implemented at PORTS in 1999. The IGWMP is periodically revised by DOE, with revisions approved by Ohio EPA. Groundwater monitoring in 2025 was completed in accordance with the IGWMP dated May 2024 (DOE 2024b).

Radiological data are collected in accordance with DOE Order 458.1, *Radiation Protection of the Public and the Environment,* and are included in the IGWMP so that groundwater monitoring requirements and surface water monitoring requirements related to groundwater are captured in a single plan. Radiological data are included in this report as information only as the 1999 Director's Final Findings and Orders (DFF&O) on Integration (and the 2011 revision to the 1999 DFF&O on Integration) states that tasks specific to radiological contamination are not specifically enforceable under that Order.

Groundwater beneath PORTS is prohibited from use as drinking water in accordance with the *Notation on Ownership Record for Notification to Potential Owners/Users of Groundwater Restrictions at the Portsmouth Gaseous Diffusion Plant, Ohio* (filed with Pike County on October 14, 2003). PORTS obtains its water for drinking and industrial use from water supply well fields north and west of the PORTS site in the Scioto River Valley buried aquifer. The Scioto River Valley buried aquifer is not hydraulically connected to groundwater at PORTS.

A brief history, groundwater flow velocities, potentiometric maps, analytical results, and plume diagrams are provided (as applicable) for the following groundwater monitoring areas:

- X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility
- Peter Kiewit (PK) Landfill
- Quadrant I Groundwater Investigative (5-Unit) Area
- X-749A Classified Materials Disposal Facility
- Quadrant II Groundwater Investigative (7-Unit) Area
- X-701B Former Holding Pond
- X-633 Former Recirculating Cooling Water Complex
- X-616 Former Chromium Sludge Surface Impoundments
- X-740 Former Waste Oil Handling Facility
- X-530A Switchyard Complex
- X-744N, P, and Q Warehouses
- X-611A Former Lime Sludge Lagoons
- X-735 Landfills
- X-734 Landfills
- X-533 Former Switchyard Complex
- X-230J6 Northeast Holding Pond and Northeast Drainage Ditch
- X-342 Fluorine Buildings
- X-630 Former Recirculating Cooling Water Complex

To monitor groundwater contaminants, samples are collected from wells at each of the areas listed above. The samples are typically analyzed for selected metals, volatile organic compounds (VOCs), and/or radiological constituents. Detections of these constituents are compared to the PORTS preliminary remediation goals (PRGs) or final remediation levels (FRLs) developed as part of the Resource Conservation and Recovery Act (RCRA) Corrective Action Program. PRGs are applicable to those units

with final Decision Documents approved by Ohio EPA between 1996 and 2003. FRLs are applicable only to the areas at PORTS defined by DOE and Ohio EPA as "deferred units." PRGs and FRLs are clean-up goals that are 1) protective of human health and the environment, and 2) comply with applicable or relevant and appropriate requirements. PRGs and FRLs are intended to satisfy regulatory cleanup requirements.

Additional information in this report includes: 1) a short description of the geology and hydrogeology at PORTS, 2) results for surface water and water supply sampling required by the IGWMP, 3) summary information for special studies, investigations, or corrective actions underway in 2025 involving groundwater monitoring or the groundwater monitoring areas, and 4) operating data for the PORTS groundwater treatment facilities.

Water levels are measured semiannually in groundwater wells across the PORTS site. The water level measurements are used to determine groundwater flow velocities and flow direction at the monitoring areas. In 2025, groundwater flow directions and velocities in the Gallia and Berea groundwater formations were consistent with results from 2024. The excavation project in the Quadrant I Groundwater Investigative (5-Unit) Area affected groundwater elevations in this immediate area.

Samples are collected at intervals ranging from quarterly to every five years, as specified in the IGWMP. In addition, data for the X-749A Classified Materials Disposal Facility and X-735 Landfills are statistically evaluated to determine whether the landfills have impacted groundwater.

GROUNDWATER PLUMES

Groundwater plumes that consist of VOCs, primarily trichloroethene (TCE), are found at four of the PORTS monitoring areas: X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility, Quadrant I Groundwater Investigative (5-Unit) Area, Quadrant II Groundwater Investigative (7-Unit) Area, and X-701B Former Holding Pond.

A summary of the groundwater monitoring data collected at each of the plumes in 2025 follows.

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility. No VOCs identified as contaminants of concern (COCs) were detected in 2025 in any of the off-site monitoring wells.

In the southern portion of the plume, TCE was detected at concentrations less than 100 µg/L in the quarterly and semiannual samples collected from wells X749-67G and X749-27G in 2025. These results indicate that TCE is no longer consistently detected above 100 µg/L in any wells that monitor the southern portion of the plume.

On the northern edge of the plume, immediately north of the X-749 Landfill, TCE decreased in 2025 in wells X749-115G and PK-09G. TCE is also decreasing in well X749-40G, which defines the northern edge of the plume. TCE was detected at 0.88 µg/L in well X749-40G, which has decreased from 2024 (3 µg/L) and from a maximum of 28.5 µg/L in 2022.

Extraction wells in the X-749/X-120 groundwater plume continue to function to control the plume and remove TCE from the groundwater plume.

Quadrant I Groundwater Investigative (5-Unit) Area. Concentrations of TCE detected in the southern portion of the Quadrant I Groundwater Investigative (5-Unit) Area plume were generally stable or decreasing in 2025.

Concentrations of TCE detected in monitoring wells in the northern portion of the monitoring area have varied over the last several years, which is most likely due to decontamination and decommissioning (D&D) and excavation activities in the area that affect groundwater infiltration and groundwater removal from the area. Ten of the 15 groundwater extraction wells that were part of the Quadrant I Groundwater Investigative (5-Unit) Area were removed in 2021-2022 for the X-231B and 5-Unit excavation projects.

Quadrant II Groundwater Investigative (7-Unit) Area (deferred unit). Concentrations of TCE detected in the Quadrant II Groundwater Investigative (7-Unit) Area plume were generally stable or decreasing in 2025. However, TCE is increasing in two wells that monitor the southern portion of the plume: X705-03G (34.9 µg/L) and X701-45G (39.4 µg/L).

X-701B Former Holding Pond. Concentrations of TCE on the north edge of the X-701B plume at the X-230J7 Holding Pond (wells X230J7-01GA, X230J7-02GA, X230J7-03GA, and X230J7-04GA) stabilized or decreased in 2025. In 2020 through 2024, TCE concentrations had generally increased in these wells.

In 2025, TCE continued to be detected at concentrations above 100,000 µg/L in well X701-130G, which monitors the western end of the plume at the former east retention basin. TCE was detected at 120,000 µg/L, which is higher than the detections in 2019-2022 (46,100-73,000 µg/L). Historically, however, TCE was detected in this well at concentrations above 100,000 µg/L from 2014-2018 (DOE 2019).

TCE concentrations were stable in 2025 in three wells in the southern portion of the plume (X701-19G, X701-23G, and X701-79G). Although TCE was detected at 507 µg/L in well X701-79G in 2025, which increased compared to 2024 (319 µg/L), TCE was detected at concentrations over 400 µg/L in 2020 and 2021. TCE remained less than 5 µg/L in samples collected from well X701-19G, which monitors the southern edge of the plume. Well X701-19G was part of the groundwater plume in 2020-2022 with TCE detections between 5.06 and 9.43 µg/L.

Fluctuating concentrations of TCE in the monitoring wells within the X-701B plume may be due to the operational issues identified at the X-237 Groundwater Collection System that were addressed in 2023. With the approval of Ohio EPA, DOE replaced the vertical casing, screen, and pump in the north pumping well (X237-NPW) and the pump in the south pumping well (X237-SPW) in January 2023. With the maintenance for this system completed, TCE concentrations detected in some of the monitoring wells have changed in 2024-2025 when compared to data collected before this maintenance was completed.

Uranium was detected above the Ohio EPA drinking water standard in groundwater samples collected from X-701B monitoring wells within the interim remedial measure (IRM) treatment area.

OTHER GROUNDWATER MONITORING AREAS

Other areas at PORTS are monitored to evaluate groundwater contaminated with metals or VOCs, to ensure past uses of the area (such as a landfill) have not caused groundwater contamination, or to monitor remediation that has taken place in the area.

Groundwater monitoring data collected in 2025 at the following areas are consistent with data collected at these areas in previous years:

- PK Landfill
- X-633 Former Recirculating Cooling Water Complex (deferred unit)
- X-611A Former Lime Sludge Lagoons
- X-734 Landfills

- X-533 Former Switchyard Complex (deferred unit)

Groundwater monitoring began in the third quarter of 2024 for the following areas that were added to the May 2024 IGWMP as required by the *Deferred Units Resource Conservation and Recovery Act Facility Investigation/Corrective Measures Study Report* (DOE 2021b), called the Deferred Units RFI/CMS Report in the rest of this report. In general, data collected at these areas in 2025 were consistent with data collected in 2024 and during the Deferred Units RFI.

- X-530A Switchyard Complex
- X-744N, P, and Q Warehouses
- X-230J6 Northeast Holding Pond and Northeast Drainage Ditch
- X-342 Fluorine Buildings
- X-630 Former Recirculating Cooling Water Complex

X-616 Former Chromium Sludge Surface Impoundments. TCE has been slowly increasing in several X-616 monitoring wells over the past 25 years, with TCE detected above 5 µg/L in two Gallia wells and one Berea well for more than 10 years. Two years ago, in 2024, TCE increased to above 5 µg/L in two additional Gallia wells. Each of the wells that contain TCE at concentrations above 5 µg/L are located west (downgradient) of the X-616 Former Chromium Sludge Surface Impoundments. These results indicated that a potential TCE plume in the Gallia groundwater was present on the west side of the X-616 Former Chromium Sludge Surface Impoundments.

Additional sampling was completed in 2025 to further investigate the potential plume identified in 2024. Sampling frequencies were increased to quarterly in the five wells on the west side of the former surface impoundments in the area of the potential Gallia groundwater plume, as well as one Gallia well southwest of the potential plume area. Four additional wells that are not part of the routine monitoring program were also sampled in 2025.

Results of sampling completed in 2025 did not indicate that a plume is present on the west side of the former surface impoundments. TCE continued to be detected in the wells; however, TCE concentrations in two of the four Gallia wells had decreased to less than 5 µg/L by the fourth quarter of 2025. The definition of the plume perimeter (and PRG) is 5 µg/L.

In 2026, DOE plans to continue quarterly monitoring of five wells on the west side of the former impoundments and two of the wells that are not part of the routine monitoring program.

Chromium was detected in well X616-05G at 917 µg/L in the first quarter of 2025, which is above the PRG (100 µg/L). Chromium is routinely detected at concentrations above the PRG in samples collected from this well.

X-740 Former Waste Oil Handling Facility. TCE was detected above the PRG (5 µg/L) in two of the X-740 monitoring wells within the restored excavation area: X740-26B and X740-27G. Well X740-26B is located in the area where TCE was highest prior to excavation of the area. Well X740-27G is located approximately 200 ft south-southwest of well X740-26B. The other X-740 wells within the restored excavation area (X740-24B, X740-25G, X740-28G, X740-29G, and X740-30G) were not sampled in 2025. These wells require sampling every five years and will be sampled in 2028.

Of the three wells west of the excavation area, TCE is routinely detected in one well (X740-11G). In 2025, TCE was detected at 5.24 µg/L. No VOCs were detected in wells X740-12B and X740-13G, which is consistent with previous data for these wells.

X-735 Landfills. The monitoring program at the X-735 Landfills includes corrective measures monitoring for Gallia wells and detection monitoring for Berea wells. As required by the corrective measures monitoring program, concentrations of three metals (cobalt, mercury, and nickel) and five indicator parameters (alkalinity, chloride, sodium, sulfate, and total dissolved solids) detected in downgradient Gallia wells are compared to concentration limits based on drinking water standards or site background concentrations. None of the concentration limits were exceeded in 2025.

The detection monitoring program for X-735 Berea wells continued in 2025. None of the statistical control limits requiring Ohio EPA notification were exceeded in the X-735 downgradient Berea wells in 2025.

X-749A Classified Materials Disposal Facility. The monitoring program for the X-749A Classified Materials Disposal Facility includes detection monitoring at the downgradient Gallia monitoring wells. The detection monitoring program requires notification of Ohio EPA if a statistical control limit (the Shewhart control limit) for specified monitoring parameters is exceeded in two consecutive sampling events. None of the statistical control limits requiring Ohio EPA notification were exceeded in the X-749A downgradient wells in 2025.

SURFACE WATER AND WATER SUPPLY MONITORING

The IGWMP also contains requirements for 1) surface water monitoring in creeks and drainage ditches at PORTS that receive groundwater discharge; and 2) water supply monitoring.

Surface water. TCE is routinely detected in samples collected from the East Drainage Ditch and some of the monitoring locations on Little Beaver Creek (LBC-SW01 and LBC-SW02). In 2025, TCE was detected at a maximum concentration of 62.7 µg/L in the first quarter sample collected from the East Drainage Ditch (EDD-SW01). TCE was not detected in the three of the four samples collected in 2025 at LBC-SW03 (the furthest downstream sampling location on Little Beaver Creek that was sampled in 2025). The fourth sample contained TCE at an estimated concentration less than 0.5 µg/L.

TCE and other VOCs commonly detected in the PORTS groundwater plumes were detected in samples collected from the Southwestern Drainage Ditch at UND-SW01. The concentrations of VOCs detected at this monitoring location in 2025 were typical for this location. VOCs were not detected in the samples collected from the downstream sampling location at the Southwestern Drainage Ditch (UND-SW02).

No transuranics were detected in the surface water samples collected during 2025.

Technetium-99 is occasionally detected in samples collected from the East Drainage Ditch and Little Beaver Creek. These detections are within the historical range of technetium-99 detected in Little Beaver Creek, and are less than the DOE derived concentration standard for technetium-99 (390,000 pCi/L) (DOE 2022b). Derived concentration standards are radiological quantities, used in the development and conduct of environmental and public radiation protection programs implemented at DOE sites and for DOE activities. The derived concentration standard is the concentration of a radionuclide in air or water that, under conditions of continuous exposure for one year by one exposure mode (ingestion of water or inhalation of air), would result in a dose of 100 mrem/year to a reference member of the population.

In 2025, technetium-99 was detected at levels up to 26.9 pCi/L in samples collected from the East Drainage Ditch (EDD-SW01) and Little Beaver Creek. These detections are less than 0.007% of the DOE derived concentration standard for technetium-99 (390,000 pCi/L) (DOE 2022b).

The concentrations of uranium detected in the surface water samples were less than 0.5% of the DOE derived concentration standards for uranium isotopes (1200 pCi/L for uranium-233/234, 1300 pCi/L for

uranium-235, and 1400 pCi/L for uranium-238) (DOE 2022b). The detections of uranium and uranium isotopes in surface water during 2025 were consistent with sampling results for previous years (DOE 2021a, DOE 2022a, DOE 2023a, DOE 2024a, DOE 2025a).

Water supply. The only VOCs detected in water supply samples in 2025 were trihalomethanes, which are common residuals in treated drinking water. The total concentration of trihalomethanes detected in drinking water samples was less than the Ohio EPA drinking water standard (80 µg/L).

No transuranics or technetium-99 were detected in any of the water supply samples collected in 2025.

Uranium was detected at concentrations less than the Ohio EPA drinking water standard for uranium (30 µg/L) in the PORTS water supply (RES-012) and one residential water supply (RES-015). The highest concentration of uranium detected in the water supply samples collected in 2025 was 1.66 µg/L. As previously mentioned, groundwater at PORTS is not used for drinking water and is not hydraulically connected to the Scioto River Valley buried aquifer.

1. INTRODUCTION

1.1 SITE DESCRIPTION

The Portsmouth Gaseous Diffusion Plant (PORTS), which enriched uranium via the gaseous diffusion process from 1954 to 2001, is one of three uranium enrichment facilities that have operated in the United States. PORTS is located in a rural area of Pike County, Ohio, on a 5.4-square-mile site. The site is two miles east of the Scioto River in a small valley running parallel to and approximately 130 ft above the Scioto River floodplain. Pike County has approximately 27,065 residents (U.S. Census Bureau 2026).

The U.S. Department of Energy (DOE) is responsible for decontamination and decommissioning (D&D) of the gaseous diffusion process buildings and associated facilities and areas, environmental restoration, waste disposal associated with DOE activities, depleted uranium hexafluoride conversion, and management of other non-leased facilities at PORTS. From January through September of 2025, Fluor-BWXT Portsmouth LLC was responsible for D&D activities at PORTS, as well as environmental restoration and the environmental monitoring discussed in this report. On October 1, 2025, the Southern Ohio Cleanup Company LLC (SOCCo), became responsible for these activities.

Groundwater beneath PORTS is prohibited from use as drinking water in accordance with the *Notation on Ownership Record for Notification to Potential Owners/Users of Groundwater Restrictions at the Portsmouth Gaseous Diffusion Plant, Ohio* (filed with Pike County on October 14, 2003). PORTS obtains its water for drinking and industrial use from water supply well fields north and west of the PORTS site in the Scioto River Valley buried aquifer. The Scioto River Valley buried aquifer is not hydraulically connected to groundwater at PORTS.

1.2 GROUNDWATER MONITORING PROGRAM

DOE initiated groundwater and surface water monitoring at PORTS in the 1980s. Groundwater monitoring has been conducted in response to regulatory requirements of the Ohio Administrative Code, Resource Conservation and Recovery Act (RCRA) hazardous waste and solid waste post-closure documents, DOE Orders, the 1989 Consent Decree between the DOE and the State of Ohio, and the 1989 Administrative Order by Consent between DOE and U.S. Environmental Protection Agency (U.S. EPA) (amended in 1994 and 1997 and terminated on February 13, 2017).

Because of the numerous regulatory programs, DOE developed an *Integrated Groundwater Monitoring Plan* (IGWMP) to establish groundwater monitoring requirements for PORTS. The IGWMP was developed in accordance with the 1999 Director's Final Findings and Orders (DFF&O) on Integration, which was revised in 2011. The IGWMP is designed to minimize the potential for confusion in interpreting requirements and to maximize resources for collecting the data needed for sound decision making. The initial IGWMP was approved by Ohio Environmental Protection Agency (Ohio EPA) in 1999. The IGWMP is revised periodically based on monitoring data, corrective actions, and other considerations. Revisions to the IGWMP are approved by Ohio EPA.

Groundwater monitoring in January through December of calendar year (CY) 2025 was completed in accordance with the IGWMP dated May 2024 (DOE 2024b). This groundwater monitoring report does not include data for groundwater monitoring at the On-Site Waste Disposal Facility (OSWDF) collected in accordance with the *OSWDF Performance Standards Verification Plan* (DOE 2021c). These data will be provided in the OSWDF Annual Project Status Report submitted to Ohio EPA.

Radiological data are collected in accordance with DOE Order 458.1, *Radiation Protection of the Public and the Environment,* and are included in the IGWMP so that groundwater monitoring requirements and surface water monitoring requirements related to groundwater are captured in a single plan. Radiological data are included in this report as information only as the 1999 DFF&O on Integration (and the 2011

revision to the 1999 DFF&O on Integration) states that tasks specific to radiological contamination are not specifically enforceable under that Order.

The IGWMP requires groundwater monitoring of the following areas within the quadrants designated by the RCRA Corrective Action Program. Figure 1 shows the location of each IGWMP area. The monitoring areas within each quadrant are listed as follows:

- Quadrant I
  - X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility
  - Peter Kiewit (PK) Landfill
  - Quadrant I Groundwater Investigative (5-Unit) Area
  - X-749A Classified Materials Disposal Facility
- Quadrant II
  - Quadrant II Groundwater Investigative (7-Unit) Area
  - X-701B Former Holding Pond
  - X-633 Former Recirculating Cooling Water Complex
- Quadrant III
  - X-616 Former Chromium Sludge Surface Impoundments
  - X-740 Former Waste Oil Handling Facility
  - X-530A Switchyard Complex
  - X-744N, P, and Q Warehouses
- Quadrant IV
  - X-611A Former Lime Sludge Lagoons
  - X-735 Landfills
  - X-734 Landfills
  - X-533 Former Switchyard Complex
  - X-230J6 Northeast Holding Pond and Northeast Drainage Ditch
  - X-342 Fluorine Buildings
  - X-630 Former Recirculating Cooling Water Complex.

Figures 2 through 14 show the monitoring wells for each of the monitoring areas listed above. In addition, the IGWMP includes surface water and water supply monitoring. Figures 15 and 16 show the surface water and water supply monitoring locations, respectively. Tables 1 through 5 provide the monitoring schedules and analytical parameter suites for each quadrant and the other monitoring programs required by the IGWMP (surface water and water supply). Table 6 lists the analytical parameter suites.

This Annual Groundwater Report is organized as follows. Section 1 provides an introduction to PORTS and the groundwater monitoring program, including a description and history of each IGWMP monitoring area or program. Sections 2 and 3 provide descriptions of the local geology and groundwater elevations measured at PORTS in 2025, respectively. These groundwater elevations are used to create potentiometric maps to monitor groundwater flow and to calculate flow velocities for each IGWMP monitoring area. Section 4 discusses the analytical results for each monitoring area or program.

Section 5 provides operating data for the groundwater treatment facilities and discusses National Pollutant Discharge Elimination System (NPDES) monitoring results for the groundwater treatment facilities in 2025. Contaminated groundwater extracted from several of the monitoring areas is treated on site at three groundwater treatment facilities. A fourth groundwater treatment facility formerly treated groundwater from extraction wells near the X-701B Former Holding Pond; however, the extraction wells have been

removed and this facility currently treats miscellaneous site water in accordance with the NPDES permit. Treated water from these facilities is discharged through NPDES outfalls or internal monitoring locations.

1.3 GROUNDWATER MONITORING AREAS

The following sections describe the groundwater monitoring areas in Quadrants I, II, III, and IV.

1.3.1 X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility

In the southern portion of Quadrant I, groundwater concerns focus on three contaminant sources: the X-749 Contaminated Materials Disposal Facility (also called the X-749 Landfill), X-120 Former Training Facility, and PK Landfill. A contaminant plume consisting of volatile organic compounds (VOCs), primarily trichloroethene (TCE), is associated with the X-749 Contaminated Materials Disposal Facility and X-120 Former Training Facility. The PK Landfill, located immediately northeast of the X-749 Landfill, is not a source of contaminants to the groundwater plume associated with the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility.

1.3.1.1 X-749 Contaminated Materials Disposal Facility

The X-749 Contaminated Materials Disposal Facility (see Figure 2) is a landfill located in the south-central section of the PORTS facility. The landfill covers approximately 11.5 acres and was built in an area of highest elevation within the southern half of PORTS. The landfill operated from 1955 to 1990.

The northern portion (approximately 7.5 acres) contains waste contaminated with industrial solvents, waste oils from plant compressors and pumps, sludges that were classified as hazardous, and low-level radioactive materials. The southern portion (approximately 4 acres) contains non-hazardous, low-level radioactive scrap materials.

The initial closure of the X-749 Landfill, completed in 1992, included installation of 1) a multimedia surface cap, 2) a barrier wall along the north side and northwest corner, and 3) subsurface groundwater collection systems on the northern half of the east side and the southwest corner, including one sump to remove groundwater within each of the groundwater collection systems. The barrier wall and subsurface collection systems extended down to bedrock. Groundwater from the collection systems was treated at the X-622 Groundwater Treatment Facility and then discharged in accordance with the applicable NPDES permit.

Corrective actions selected by Ohio EPA for the X-749/X-120 groundwater plume in the *Quadrant I Decision Document* (Ohio EPA 2001) included construction of a barrier wall on the south and east sides of the X-749 Landfill and phytoremediation. Construction of the barrier wall, begun in 2001 and completed in 2002, required removal of the groundwater collection system and associated sump on the northern half of the east side of the landfill. The groundwater collection system and sump on the southwest corner of the landfill remain in place. The *Quadrant I Decision Document* (Ohio EPA 2001) identifies the contaminants of concern (COCs) and preliminary remediation goals (PRGs) for Gallia groundwater in the X-749/X-120 groundwater plume.

Planting poplar trees for phytoremediation of the X-749/X-120 groundwater plume began in 2002 and was completed in 2003. One-year-old hybrid poplar trees (*Populus nigra* × *maximowiczii*) were planted 10 ft apart in trench rows 10 to 30 ft apart, over an area of 22 acres of the X-749/X-120 groundwater plume. The phytoremediation trenches were backfilled with soils amended with sand, peat moss, lime, and fertilizer prior to planting. Sand-filled borings (sand stacks) consisting of 8-inch diameter borings from the bottom of the trench to bedrock (approximately 30 ft in depth) were back-filled with coarse sand. The system was designed to allow contaminated groundwater to flow up through the sand stacks (due to the potentiometric head observed in the semi-confined Gallia groundwater) into the trenches for access by the tree roots.

In 2007, the *Work Plan for the X-749/X-120 Area Groundwater Optimization Project* (DOE 2007c) was developed to enhance groundwater monitoring and corrective actions in the X-749/X-120 groundwater plume. Two additional extraction wells installed in the groundwater collection trench on the southwest side of the X-749 Landfill began operating in 2008. The extraction wells, combined with the existing sump (X749-WPW), more effectively remove groundwater from the trench thereby controlling contaminants emanating from the X-749 Landfill. Monitoring data indicate that the upgraded groundwater collection system is now functioning as intended to prevent migration of contaminants from the X-749 Landfill.

The leading edge of the contaminated groundwater plume emanating from the X-749 Landfill is near the southern boundary of the PORTS reservation. In 1994, the X-749 South Barrier Wall (a subsurface barrier wall) was constructed across a portion of this southern boundary. In 2004, VOCs, including TCE, were detected in an off-site groundwater monitoring well south of the DOE property line, which indicated that the groundwater plume was moving around the X-749 South Barrier Wall. Further investigation determined that some portions of the bottom of the X-749 South Barrier Wall were not constructed to the depth intended by the design. The wall was intended to be keyed approximately 2 ft into the Sunbury shale, however, portions of the wall appear to end above the Sunbury by as much as 4 ft, thereby allowing contaminated groundwater to also flow beneath the wall.

In 2007, activities proposed in the *Work Plan for the X-749/X-120 Area Groundwater Optimization Project* (DOE 2007c) were initiated to address the groundwater plume in the X-749 South Barrier Wall area. Groundwater modeling was completed to evaluate groundwater flow in the X-749 South Barrier Wall Area and determine appropriate locations for groundwater extraction wells to control the off-site migration of the plume in this area. Four groundwater extraction wells (X749-EW01G, X749-EW02G, X749-EW03G, and X749-EW04G) were installed in the X-749 South Barrier Wall area (see Figure 2) and began operation in 2007. Monitoring data indicate that the X-749 South Barrier Wall extraction wells are functioning as intended to reduce contaminants in on-site and off-site groundwater.

In 2010, two additional extraction wells (X749-EW07G and X749-EW08G) were installed in accordance with the *Addendum to the Work Plan for the X-749/X-120 Area Groundwater Optimization Project* (DOE 2010b) to remediate an area within the plume with higher concentrations of TCE (the area southwest of the X-749 Landfill) and control migration of the leading edge of the southwestern portion of the groundwater plume. A third extraction well (X749-EW09G) was installed in the X-120 area of the plume (see Section 1.3.1.2).

The *First Five-Year Review for the X-749/X-120 Groundwater Plume* (DOE 2011b), which evaluated monitoring data collected from this area between 2001 and 2010, found that the corrective actions implemented for the X-749/X-120 groundwater plume (both the corrective actions required by the Decision Document and the extraction wells installed in 2007 and 2008) were achieving corrective action objectives by preventing migration of contaminants from the X-749 Landfill and controlling migration of the X-749/X-120 groundwater plume. However, Ohio EPA and DOE agreed that the phytoremediation system was not as successful as anticipated in reducing concentrations of TCE in groundwater. The extraction wells that began operating in 2007-2008 in the groundwater collection trench on the southwest side of the X-749 Landfill and the X-749 South Barrier Wall Area, as well as the barrier wall on the south and east sides of the landfill (completed in 2002), appear to be primarily responsible for the reductions in TCE concentrations within the X-749/X-120 groundwater plume. Maintenance of the phytoremediation system was discontinued with the approval of Ohio EPA in 2011.

The *Second Five-Year Review for the X-749/X-120 Groundwater Plume* (DOE 2016b) and *Third Five-Year Review for the X-749/X-120 Groundwater Plume* (DOE 2021d) found that the remedial actions implemented for the X-749/X-120 groundwater plume, with the exception of phytoremediation, were

continuing to achieve remedial action objectives by preventing migration of contaminants from the X-749 Landfill and controlling migration of the X-749/X-120 groundwater plume. Ohio EPA approved these five-year reviews in 2016 and 2021, respectively.

During planning for the Deferred Units RCRA Facility Investigation (RFI) in 2013-2014, discovery of historical aerial photographs indicated that a temporary storage area may have been located north of the X-749 Landfill, immediately north of the XT-847 Building. Due to visual disturbances identified within the area, and lack of documentation or process knowledge for the activities that took place during the 1970s, the area was sampled as part of the Deferred Units RFI. The Deferred Units RFI sampling identified TCE in groundwater at concentrations above the PRG. Based on these results, four new monitoring wells were installed and added to the IGWMP.

One hundred two wells and one sump/extraction well were sampled during 2025 to monitor the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility. Tables 1 and 6 provide the sampling schedule and monitoring parameters for the wells that were sampled in 2025. Figure 2 shows the wells that are part of the routine monitoring program for this area. The IGWMP provides details on the routine monitoring program for this area. Appendix A provides the 2025 monitoring data for the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility.

1.3.1.2 X-120 Former Training Facility

The X-120 Former Training Facility (originally the Goodyear Training Facility, and also called the X-120 Old Training Facility) covered an area of approximately 11.5 acres west of the present-day XT-847 building (see Figure 2). The X-120 Former Training Facility included a machine shop, metal shop, paint shop, and several warehouses used during the construction of PORTS in the 1950s. The shops may have used solvents and various other materials; disposal practices of these solvents are unknown.

Groundwater contamination in the vicinity of this facility is primarily TCE. The eastern portion of the X-120 Former Training Facility plume co-mingles with the western portion of the X-749 Landfill plume; however, the X-120 Former Training Facility plume migrates towards the Southwestern Drainage Ditch. In 1996, a horizontal well was installed along the approximate axis of the X-120 Former Training Facility plume. This well passively collected and transferred contaminated groundwater by gravity drainage to the X-625 Groundwater Treatment Facility. With the concurrence of Ohio EPA, operation of the X-625 Groundwater Treatment Facility ceased in 2003 and the horizontal well discharge was capped because of the small volume of groundwater that was being treated at the facility.

In 2010, a groundwater extraction well (X749-EW09G) was installed in accordance with the *Addendum to the Work Plan for the X-749/X-120 Area Groundwater Optimization Project* (DOE 2010b) in the area west of the X-120 Former Training Facility to remediate the higher concentrations of TCE in this area of the plume.

1.3.2 PK Landfill

The PK Landfill is located west of Big Run Creek just south of the X-230K Holding Pond (see Figure 2). The landfill, which began operation in 1952, was used as a salvage yard, burn pit, and trash area during the construction of PORTS. After the initial construction, the disposal site was operated as a sanitary landfill until 1968, when soil was graded over the site and the area was seeded with native grasses. No manifests or records exist that characterize the wastes in the landfill.

During site investigations, intermittent seeps were observed emanating from the PK Landfill into Big Run Creek. In 1993, sampling was conducted at three of the seeps and at Big Run Creek approximately 40 ft downstream of the seeps. Sample results indicated that the seeps contained vinyl chloride; however, no vinyl chloride was detected in Big Run Creek.

In 1994, a portion of Big Run Creek was relocated approximately 50 ft to the east. A groundwater collection system was installed in the old creek channel to capture the seeps emanating from the landfill. A second collection system was constructed in 1997 on the southeastern landfill boundary to contain the groundwater plume migrating toward Big Run Creek from the X-749 Landfill and the southern portion of the PK Landfill.

In May 1996, the *Decision Document Peter Kiewit Landfill* (Ohio EPA 1996a) was issued by Ohio EPA. U.S. EPA issued its *Record of Decision/Statement of Basis Peter Kiewit Landfill* (U.S. EPA 1997), which is the U.S EPA version of a decision document, on May 15, 1997. The U.S. EPA Record of Decision included the Ohio EPA Decision Document and required the same remedial actions as the Ohio EPA Decision Document.

A RCRA Subtitle D cap was constructed over the PK Landfill in 1998, as required by the Decision Document (Ohio EPA 1996a). Although the PK Landfill is adjacent to the X-749 Landfill and the X-749/X-120 groundwater plume, it is not a source of contaminants detected in the X-749/X-120 groundwater plume.

In 2002, a five-year review was completed for the PK Landfill to evaluate the effectiveness of the corrective measures implemented at this area [see the report entitled *X-611A Prairie and the X-749B Peter Kiewit Landfill Five-Year Evaluation* (DOE 2002)]. In response to the findings of the five-year review, the *Comprehensive Monitoring Plan for the X-749 and Peter Kiewit Landfill Areas* (DOE 2003a) was developed to provide additional data to evaluate the effectiveness of the landfill cap and groundwater collection systems, and to determine whether a barrier wall was needed on the north and west sides of the PK Landfill.

The *Annual (2004) Summary Report of the Comprehensive Monitoring Plan Data for the X-749/Peter Kiewit Landfill Areas* (DOE 2005) presented the findings of the *Comprehensive Monitoring Plan for the X-749 and Peter Kiewit Landfill Areas* (DOE 2003a). The landfill cap was performing adequately to impede surface water from percolating through landfill waste and potentially contaminating groundwater. The groundwater collection systems were, for the most part, preventing groundwater beneath the landfill from reaching Big Run Creek, although low concentrations of VOCs were detected in wells between the collection systems and Big Run Creek. Construction of a barrier wall on the upgradient (west and north) sides of the PK Landfill did not appear to be necessary based on evaluation of the PK Landfill cap, construction of the X-749 barrier walls, and evaluation of monitoring data.

The *Second Five-Year Review for the X-749B Peter Kiewit Landfill* (DOE 2008e) found that the corrective actions implemented at the PK Landfill (the groundwater collection systems, landfill cap, and institutional controls) were achieving corrective action objectives by eliminating exposure pathways and reducing the potential for contaminant transport. Construction of a barrier wall on the upgradient sides of the PK Landfill did not appear to be necessary. Concentrations of many of the VOCs detected in the PK Landfill wells, sumps, and manholes had decreased significantly. VOCs detected in the PK Landfill wells, sumps, and manholes had not been detected in surface water samples collected from Big Run Creek adjacent to or downstream from PK Landfill.

The *Third Five-Year Review for the X-749B Peter Kiewit Landfill* (DOE 2013d), *Fourth Five-Year Review for the X-749B Peter Kiewit Landfill* (DOE 2018b), and *Fifth Five-Year Review for the X-749B Peter Kiewit Landfill* (DOE 2023c) found that the corrective actions implemented at the PK Landfill (the groundwater collection systems, landfill cap, and institutional controls) were continuing to achieve corrective action objectives by eliminating exposure pathways and reducing the potential for contaminant transport.

In 2025, nine wells, two sumps, and two manholes were sampled to monitor this area. Tables 1 and 6 provide the sampling schedule and monitoring parameters for the PK Landfill wells and sumps that were sampled in 2025. Figure 2 shows all the wells that are part of the monitoring program for the PK Landfill. Appendix A provides the 2025 monitoring data for the PK Landfill.

1.3.3 Quadrant I Groundwater Investigative (5-Unit) Area

The Quadrant I Groundwater Investigative (5-Unit) Area, in the northern portion of Quadrant I, consists of a groundwater plume resulting from a number of sources of groundwater contamination (see Figure 3). These sources include the X-231A Southeast Oil Biodegradation Plot, X-231B Southwest Oil Biodegradation Plot, X-326 Process Building (southwest corner of the building), X-600 Former Steam Plant, X-600A Former Coal Storage Yard, X-621 Coal Pile Runoff Treatment Facility, X-626 Recirculating Cooling Water Pump House and Cooling Tower, X-710 Technical Services Building (including X-710A Neutralization Pit and X-710 Radioactive Wastewater Tank), X-760 Former Pilot Investigation Building, and X-770 Former Mechanical Testing Facility.

One of these sources, the X-231B Southwest Oil Biodegradation Plot, was monitored prior to implementation of the IGWMP. The X-231B Southwest Oil Biodegradation Plot was used from 1976 to 1983 for land application of contaminated oil/solvent mixtures generated from the enrichment process and maintenance activities. The X-231B area is located west of the X-600 Former Steam Plant, and consisted of two disposal plots, each surrounded by an elevated soil berm, that were periodically fertilized and tilled to enhance aeration and promote biological degradation of waste oil. The X-231B area was not permitted as a RCRA-regulated land treatment unit. The X-231A Southeast Oil Biodegradation Plot was east of the X-231B and consisted of four smaller plots used similarly to the X-231B for land application of oil/solvent mixtures. Three groundwater extraction wells (X231B-B10G, X231B-B11G, and X231B-B12G) were installed south of the X-231B Southwest Oil Biodegradation Plot and west of the X-744K building in 1991 to control the TCE plume in this area.

The *Quadrant I Decision Document* (Ohio EPA 2001) required construction of multi-layered caps on the X-231A and X-231B Oil Biodegradation Plots to minimize groundwater infiltration and control the spread of contamination. The oil biodegradation plots were removed in 2022 and 2023 as described later in this section.

Eleven additional extraction wells (X622-EW01G through X622-EW11G) were installed as one of the corrective actions selected for this area in the *Quadrant I Decision Document* (Ohio EPA 2001). These groundwater extraction wells began operation in 2002. An additional extraction well south of the X-326 Process Building (X622-EW12G) began operating in 2009 to address a probable source of contaminants at the southwest corner of the building. Ten of the 15 groundwater extraction wells were removed in 2021 or 2022 as described later in this section.

In 2008, a five-year review of both the groundwater extraction system for the Quadrant I Groundwater Investigative (5-Unit) Area (called the Five-Unit Groundwater Investigative Area in the Quadrant I Decision Document) and the multi-layered caps for the X-231A and X-231B Oil Biodegradation Plots was completed. This report, the *First Five-Year Review for the Five-Unit Groundwater Investigative Area and X-231A/X-231B Oil Biodegradation Plots* (DOE 2008a), found that the corrective actions had eliminated potential exposure pathways to contaminants and reduced concentrations of TCE in the groundwater, although the corrective actions were not removing VOCs from the groundwater beneath the area as effectively as originally predicted by the groundwater model used to develop the Decision Document.

In 2010, RCRA investigations were completed near the former X-760 and X-770 buildings, which are located in the northern portion of the Quadrant I Groundwater Investigative Area TCE plume. The

investigations were intended to identify and/or remove contaminated soils near these former buildings. Soil contaminated with TCE was identified and removed from the south and east sides of the former X-770 building. Soil contaminated with TCE was identified on the north and west sides of the former X-760 building. Ohio EPA determined that the contaminated soils at the former X-760 building could be left in place until cleanup determinations were made for all of Quadrant I.

The *Second Five-Year Review for the Five-Unit Groundwater Investigative Area and X-231A/X-231B Oil Biodegradation Plots* (DOE 2013a), *Third Five-Year Review for the Five-Unit Groundwater Investigative Area and X-231A/X-231B Oil Biodegradation Plots* (DOE 2018c), and *Fourth Five-Year Review for the Five-Unit Groundwater Investigative Area and X-231A/X-231B Oil Biodegradation Plots* (DOE 2023d) found that the remedial actions implemented for the X-231A and X-231B Oil Biodegradation Plots and the Five-Unit Groundwater Investigative Area (the multimedia caps and groundwater extraction system) were continuing to remove potential exposure pathways to contaminants, control migration of the groundwater plume, and remove VOCs from groundwater.

The X-231B Oil Biodegradation Plot, X-231A Oil Biodegradation Plot, and additional areas within the Quadrant I Groundwater Investigative (5-Unit) Area have been or will be excavated in accordance with the requirements of *The July 30, 2018 Director's Final Findings and Orders for CERCLA Actions to Restore Natural Resources* (NRD DFF&O) and Waste Disposition Record of Decision. Ohio EPA and DOE entered into the NRD DFF&O to resolve all impacts to natural resources at PORTS identified by the State for natural resource damage through specific natural resource restoration actions and to enhance ongoing remediation efforts at PORTS in a manner that provides restorative benefits to the natural resources injured at the site by historic operations.

Excavation of the X-231A and X-231B Oil Biodegradation Plots was completed in 2023 and 2022, respectively. The *X-231B Oil Biodegradation Plot Excavation Work Plan* (DOE 2021e), *X-231B Oil Biodegradation Plot Excavation Field Work Completion Report* (DOE 2023f), and *5-Unit Groundwater Plume Area Excavation Work Plan* (DOE 2025b) provide additional information about these projects. Excavation of the additional areas within the Quadrant I Groundwater Investigative (5-Unit) Area is ongoing and is expected to take several years.

The X-231A and X-231B Oil Biodegradation Plots were excavated by removing the entirety of the waste units including the soil cover, synthetic liner, and all contaminated soil beneath the liner to the Sunbury Shale. As a result, these waste units no longer exist and all contamination attributable to the units has been removed, eliminating potential risk posed by the waste units to human health or the environment.

Ten of the 15 extraction wells were removed as part of the excavation projects in the Quadrant I Groundwater Investigative (5-Unit) Area in 2021 and 2022. Five extraction wells in the southern portion of the monitoring area continue to operate. Figure 3 shows the locations of the five remaining extraction wells. Water from these wells is treated at the X-622 Groundwater Treatment Facility.

In 2025, 19 wells were sampled as part of the IGWMP for the Quadrant I Groundwater Investigative (5-Unit) Area. Tables 1 and 6 provide the sampling schedule and monitoring parameters for the wells that were sampled in 2025. Figure 3 shows the wells that were part of the monitoring program for the Quadrant I Groundwater Investigative (5-Unit) Area in 2025. The IGWMP provides details on the monitoring program for this area. Appendix A provides the 2025 monitoring data for the Quadrant I Groundwater Investigative (5-Unit) Area.

1.3.4 X-749A Classified Materials Disposal Facility

The X-749A Classified Materials Disposal Facility, a closed landfill, is located on the eastern edge of the Quadrant I Groundwater Investigative (5-Unit) Area, but is not a source of contaminants detected in the groundwater plume associated with the Quadrant I Groundwater Investigative (5-Unit) Area.

The 6-acre X-749A Classified Materials Disposal Facility (also called the X-749A Landfill) operated from 1953 through 1988 for the disposal of wastes classified under the Atomic Energy Act (see Figure 3). Potential contaminants include polychlorinated biphenyls (PCBs), asbestos, radionuclides, and industrial waste. Closure of the landfill, completed in 1994, included the construction of a multilayer cap and the installation of a drainage system to collect surface water runoff. The drainage system discharges via an NPDES-permitted outfall. The X-749A Landfill is monitored in accordance with Ohio EPA requirements for post-closure monitoring at industrial solid waste landfills as described in the IGWMP.

Ten wells were sampled to monitor the X-749A Landfill in 2025 (see Figure 3 and Tables 1 and 6). Appendix A provides the 2025 monitoring data for the X-749A Classified Materials Disposal Facility.

1.3.5 Quadrant II Groundwater Investigative (7-Unit) Area

Several potential sources of groundwater contamination comprise the Quadrant II Groundwater Investigative (7-Unit) Area (see Figure 4). One of these sources, the X-701C Neutralization Pit, was monitored prior to implementation of the IGWMP. The X-701C Neutralization Pit was an open-topped neutralization pit that received process effluents and basement sump wastewater such as acid and alkali solutions and rinse water contaminated with TCE and/or trichloroethane from metal cleaning operations. The X-701C Neutralization Pit was located within a TCE plume that is centered around the X-700 and X-705 buildings. In 2001, the X-701C Neutralization Pit was closed and removed in accordance with Ohio EPA regulations. Other buildings in this area such as the X-700 Chemical Cleaning Facility, X-705 Decontamination Building, and X-720 Maintenance Building were designated as deferred units in the *Quadrant II Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 2001). Additional investigation of the groundwater plume in the Quadrant II Groundwater Investigative (7-Unit) Area was also deferred to D&D.

The natural groundwater flow direction in this area is to the east toward Little Beaver Creek. However, the groundwater flow pattern has been changed in this area by using sump pumps in the basements of the X-700 and X-705 buildings. The sump pumps minimize the spread of the groundwater plume in this area. The sumps collect the groundwater, which is treated at the X-627 Groundwater Treatment Facility.

In 2010, enhanced anaerobic bioremediation (EAB) was approved by Ohio EPA as an interim remedial measure (IRM) to address contaminant source areas within the southeastern portion of the groundwater plume near the former X-720 Neutralization Pit and the X-700T Aboveground Storage Tank. EAB introduces fermentable carbon compounds such as sodium lactate into the subsurface to increase indigenous microorganisms that degrade chloroethenes such as TCE. EAB causes TCE to degrade to *cis*-1,2-dichloroethene, then to vinyl chloride, and finally to ethylene. Sodium lactate, a fast-acting fermentable carbon compound, was chosen for injection into the Quadrant II Groundwater Investigative (7-Unit) Area because of the higher TCE concentrations and relatively higher thickness of the Gallia water-bearing unit in the area (and corresponding higher flow rates within the Gallia). Six injections of sodium lactate were completed in 2011 and 2012 and injections of additional dechlorinating bacteria were completed in June 2012. Monitoring for the IRM was completed in 2013.

The *Final Report for the 7-Unit Interim Remedial Measure* (DOE 2014) was submitted to Ohio EPA in 2014. Overall, the results indicated that appropriate redox conditions could be established at the site, and contaminant degradation could be stimulated despite the high TCE concentrations. EAB successfully reduced TCE to *cis*-1,2-dichloroethene, and with bioaugmentation, some of the *cis*-1,2-dichloroethene

was converted to ethane. The report concluded that after the six injection events plus a bioaugmentation event, overall there was not a measurable reduction in the average concentration of TCE in groundwater, most likely due to the potential presence of dense non-aqueous phase liquid TCE in the area, and the decision was made to conclude the IRM.

Groundwater in the Quadrant II Groundwater Investigative (7-Unit) Area and soil and sediment associated with the deferred units in the Quadrant II Groundwater Investigative (7-Unit) Area were investigated during the Deferred Units RFI. The *Deferred Units Resource Conservation and Recovery Act Facility Investigation/Corrective Measures Study Report* (DOE 2021b), called the Deferred Units RFI/CMS Report in the rest of this report, provides the results of these investigations, and the Deferred Units Decision Document (Ohio EPA 2023) provides the corrective measures selected for these areas.

During sampling conducted for the Deferred Units RFI in 2015, TCE was detected at levels above the PRG in two wells on the north side of the X-333 Process Building: X333-04G and X333-06G. Although the Deferred Units RFI/CMS Report (DOE 2021b) states that these wells are not part of the groundwater plume in the Quadrant II Groundwater Investigative (7-Unit) Area, monitoring of these wells for VOCs was required to be added to the Quadrant II Groundwater Investigative (7-Unit) Area monitoring program per the Deferred Units RFI/CMS Report.

The Deferred Units Decision Document (Ohio EPA 2023) selected *ex situ* treatment as the corrective measure for groundwater in the Quadrant II Groundwater Investigative (7-Unit) Area. *Ex situ* treatment consists of installation of groundwater extraction wells in the Quadrant II Groundwater Investigative (7-Unit) Area as well as continued operation of the sumps in the X-700 and X-705 Buildings. Groundwater extracted with the sumps and new extraction wells (when installed) is treated in the X-627 Groundwater Treatment Facility.

In 2025, 24 wells were sampled to monitor the Quadrant II Groundwater Investigative (7-Unit) Area. Two wells on the south side of the X-333 Process Building (X705-04G and X705-06G) were not sampled because the wells have been removed as part of D&D of the X-333 Process Building. Tables 2 and 6 provide the sampling schedule and monitoring parameters for these wells. Figure 4 shows the monitoring wells that are part of the monitoring program. The IGWMP provides details on the monitoring program for this area. Appendix B provides the 2025 monitoring data for the Quadrant II Groundwater Investigative (7-Unit) Area.

1.3.6 X-701B Former Holding Pond

In the eastern portion of Quadrant II, groundwater concerns focus on three areas: the X-701B Holding Pond, the X-230J7 Holding Pond, and the X-744Y Waste Storage Yard (see Figure 5).

The X-701B Holding Pond was used from the beginning of plant operations in 1954 until November 1988. The pond was designed for neutralization and settlement of acid waste from several sources. Trichloroethane and TCE were also discharged to the pond. Two sludge retention basins were located west of the holding pond and were used to hold sludge periodically dredged from the X-701B Holding Pond. The X-230J7 Holding Pond received non-contact cooling water from site operations, storm water from the eastern quadrant of the plant, and overflow effluent from the X-701B Holding Pond. The X-744Y Waste Storage Yard was south of the X-701B Holding Pond. The yard is approximately 15 acres and surrounds the X-744G Bulk Storage Building. RCRA hazardous waste was managed in this area.

Three groundwater extraction wells and a sump in the bottom of the X-701B Holding Pond collected contaminated groundwater in the western portion of the monitoring area from the mid-1990s to 2009. The sump and extraction wells were removed between 2009 and 2011 to facilitate implementation of the X-701B IRM.

A contaminated groundwater plume extends from the X-701B Holding Pond to Little Beaver Creek. Two groundwater interceptor trenches (French drains) are used to intercept the groundwater plume prior to discharge into the East Drainage Ditch and Little Beaver Creek. These trenches, called the X-237 Groundwater Collection System (see Figure 5), were installed in 1991. The X-237 trenches consist of a 660-foot-long primary trench with two extraction wells (X237-NPW and X237-SPW) and a 440-foot-long secondary trench that intersects the primary trench. In 2023, the X237-NPW was replaced with a similar size stainless steel screen and casing and similar capacity submersible pump. The pump in the X237-SPW was replaced with a similar capacity pump. The extracted groundwater is treated at the X-624 Groundwater Treatment Facility.

Ohio EPA issued the X-701B Decision Document in 2003 (Ohio EPA 2003). Corrective actions required for soil in the X-701B Holding Pond area included removal of contaminated soil in the western portion of the area and consolidation of the soil under two landfill caps to be constructed over the X-701B Holding Pond/East Retention Basin and the West Retention Basin. Groundwater remediation was to be accomplished by injection of a chemical oxidant. The X-701B Decision Document (Ohio EPA 2003) identifies the COCs and PRGs for groundwater in the X-701B groundwater plume.

Groundwater remediation was initiated in 2006, and six injection events took place between 2006 and 2008. Upon completion of the sixth injection event in 2008, data evaluated by DOE and Ohio EPA indicated that additional injection events would not be able to address the TCE source area in the upper portion of the Sunbury formation (the shale bedrock that separates the Gallia water-bearing unit from the Berea water-bearing unit in this portion of PORTS). An independent DOE review of the remediation (DOE 2008c) also indicated that surface capping of the X-701B Former Holding Pond, East Retention Basin, and West Retention Basin would have little impact on cleanup of the groundwater plume. Therefore, the X-701B Former Holding Pond, East Retention Basin, and West Retention Basin were not capped. To address groundwater contamination, Ohio EPA approved an IRM to directly mix oxidant into the contaminated soils of the Minford, the entire thickness of the Gallia, and the upper Sunbury within the source area of the western portion of the X-701B plume. Chapter 2, Section 2.4 provides more information about PORTS geology and the Minford, Gallia, and Sunbury formations.

The X-701B IRM was designed to accelerate remediation of the groundwater plume associated with the X-701B area by exposing contaminated soils within the source area and physically blending the soils with oxidant. The *Interim Action Work Plan for the X-701B Solid Waste Management Unit Source Area Interim Remedial Measure – Oxidant Mixing* (DOE 2009) was approved by Ohio EPA in 2009. Field activities for the IRM were initiated in the fourth quarter of 2009, continued throughout 2010, and were completed in 2011. The *Completion Report for the X-701B Solid Waste Management Unit Interim Remedial Measure—Oxidant Mixing* (DOE 2011a) provides more information. Figure 5 shows the IRM treatment area.

In 2023, the Deferred Units Decision Document included modified corrective measures for the X-701B Former Holding Pond Area (Ohio EPA 2023). The IRM for direct mixing of oxidant into the X-701B soils, described in the previous paragraphs, is the final corrective measure for the X-701B Former Holding Pond Area. This corrective measure replaces the corrective measures that included capping identified in the 2003 X-701B Decision Document (Ohio EPA 2003). The Deferred Units Decision Document also requires continued groundwater monitoring in accordance with the IGWMP.

Sixty-one wells that monitor the X-701B area were sampled in 2025. Tables 2 and 6 provide the sampling schedule and analytical parameters for the X-701B monitoring wells sampled in 2025. Figure 5 shows the wells that are part of the monitoring program for the X-701B Former Holding Pond. The IGWMP provides details on the monitoring program for this area. Appendix B provides the 2025 monitoring data for the X-701B Former Holding Pond area.

1.3.7 X-633 Former Recirculating Cooling Water Complex

The X-633 Former Recirculating Cooling Water Complex consists of the former X-633 recirculating water pump house, four cooling towers, and associated basins (see Figure 6).

When the X-633 Recirculating Cooling Water Complex was operating, a piping system transported cooling water used in the gaseous diffusion process and some auxiliary processes to the cooling towers. The heated water from the process buildings was pumped into the cooling towers and cooled by a forced air draft through the cooling tower. The cooled water collected in a basin below the tower. Chromium-based corrosion inhibitors were added to the cooling water until the early 1990s, when the system was converted to a phosphate-based inhibitor. Other chemicals added to the cooling water include zinc sulfate, sulfuric acid, and chlorine.

In 1996, the X-633 Former Recirculating Cooling Water Complex was identified as an area of concern for potential metals contamination based on historical analytical data for groundwater wells in this area. Samples from wells in this area were collected in 1998 and 1999 to assess the area for metals contamination. The results of this sampling are described in the *Special Study for Metals and Radiological Parameters in Groundwater* (DOE 2000b). Based on the concentrations of metals in groundwater in the area, the X-633 Former Recirculating Cooling Water Complex was added to the PORTS groundwater monitoring program in 2001. The X-633 Former Recirculating Cooling Water Complex was designated a deferred unit in the *Quadrant II Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 2001).

The X-633 pump house and cooling towers were removed in 2010. Soil and groundwater sampling completed in 2011 as part of the RCRA investigation of the X-633 Former Recirculating Cooling Water Complex (DOE 2010c) identified chromium and TCE in groundwater at concentrations above PRGs. A special study was conducted in this area from 2012 through 2023. Data collected from the special study wells were evaluated for the Deferred Units RFI/CMS Report (DOE 2021b). No additional sampling for VOCs or metals was recommended for the special study wells. Sampling for arsenic and nickel was added to the monitoring program because these metals were detected above the PRG in soil samples collected at depths between 20 and 28 ft below ground surface. These soil samples were below the expected depth to groundwater (approximately 13 ft below ground surface as reported in the Deferred Units RFI/CMS Report); therefore, groundwater monitoring was required.

Note that wells X633-07G and X633-PZ04G also monitor the chemical and petroleum containment basins east of the former X-533A Switchyard (Quadrant IV). During sampling conducted for the Deferred Units RFI, arsenic was detected above the PRG in soil samples collected at depths approximately 10 to 15 ft below ground surface. These soil samples were below the expected depth to groundwater (10 ft below ground surface). Therefore, arsenic is also monitored in wells X633-07G and X633-PZ04G to meet requirements in the Deferred Units RFI/CMS Report (DOE 2021b) for the chemical and petroleum containment basins.

Two wells (see Figure 6 and Tables 2 and 6) are sampled semiannually for chromium, arsenic, and nickel. Appendix B provides the 2025 monitoring data for the X-633 Former Recirculating Cooling Water Complex.

1.3.8 X-616 Former Chromium Sludge Surface Impoundments

The X-616 Former Chromium Sludge Surface Impoundments in Quadrant III (see Figure 7) were two unlined surface impoundments used from 1976 to 1985 for storage of sludge generated by treatment of cooling water and other site wastewater in the X-616 Liquid Effluent Control Facility. A corrosion inhibitor containing chromium was used in the cooling water system. Sludge containing chromium was produced by the water treatment system and was pumped into and stored in the X-616 impoundments.

The sludge disposed in the surface impoundments was also impacted by process effluent from the X-700 Chemical Cleaning Facility. In 1982-1988, process effluent from the X-700 Chemical Cleaning Facility that was treated in the X-701C Neutralization Pit was discharged to the X-616 Liquid Effluent Control Facility. Chlorinated organics were detected in the X-700 Process Building sump that discharged to the X-701C Neutralization Pit in 1987. Therefore, chlorinated organics may have been present in the sludge that was placed in the impoundments between 1982 and 1985 (when use of the impoundments ended). The sludge was removed from the impoundments and remediated as an interim action in 1990 and 1991. The unit was certified closed by DOE and Ohio EPA in 1993.

The *Ohio Environmental Protection Agency's Decision Document for Quadrant III of the Portsmouth Gaseous Diffusion Plant* (Ohio EPA 1999a) states that 1) no further action is required for soil at the X-616 Former Chromium Sludge Surface Impoundments, and 2) groundwater monitoring is required in accordance with the IGWMP. Additionally, the 2011 DFF&O on Integration states that the X-616 Former Chromium Sludge Surface Impoundments were closed in accordance with an approved closure plan and are considered to be in post-closure groundwater monitoring. Post-closure monitoring is conducted in accordance with the IGWMP.

Sixteen wells that are part of the IGWMP for the X-616 area were sampled in 2025. Four additional wells were also sampled during 2025 to provide more information about TCE concentrations in groundwater in the X-616 area. Tables 3 and 6 provide the sampling schedule and monitoring parameters for the wells that were sampled in 2025. Figure 7 shows all the wells that are part of the monitoring program for the X-616 Former Chromium Sludge Surface Impoundments. The IGWMP provides details on the monitoring program for this area. Appendix C provides the 2025 monitoring data for the X-616 Former Chromium Sludge Surface Impoundments.

1.3.9 X-740 Former Waste Oil Handling Facility

A groundwater plume consisting of VOCs was historically located in Quadrant III south of the X-530A Switchyard and west of the X-740 Former Waste Oil Handling Facility (see Figure 8). Although the groundwater plume was near the X-740 Former Waste Oil Handling Facility, it was demonstrated that the X-740 Former Waste Oil Handling Facility was not the source of the X-740 groundwater plume. The X-740 Former Waste Oil Handling Facility was removed in 2006.

In 1999, DOE planted poplar trees in a 2.6-acre area above the groundwater plume near the X-740 Former Waste Oil Handling Facility (see Figure 8) in accordance with the Ohio EPA selected remedy for the facility in the *Ohio Environmental Protection Agency's Decision Document for Quadrant III of the Portsmouth Gaseous Diffusion Plant* (Ohio EPA 1999a). The use of trees, called phytoremediation, was expected to remove VOCs from the groundwater plume. Two planting methods were used for the trees: some trees were planted in 2-ft diameter by 10-ft deep borings backfilled with soil amended with sand, peat moss, lime, and fertilizer. Additional trees were planted in 2-ft wide by 10-ft deep trenches backfilled with amended soil. Sand-filled borings (sand stacks) consisting of 8-inch diameter borings from the bottom of the trench to bedrock (approximately 30 ft in depth) were back-filled with coarse sand. The system was designed to allow contaminated groundwater to flow up through the sand stacks (due to the potentiometric head observed in the semi-confined Gallia groundwater) into the trenches for access by the tree roots. The Quadrant III Decision Document (Ohio EPA 1999a) identifies the COCs and PRGs for groundwater in the X-740 groundwater plume.

A five-year review of this corrective action was completed in 2003. The report, entitled *Five-Year Evaluation Report for the X-740 Phytoremediation Project* (DOE 2003b), indicated that the trees were affecting groundwater in the X-740 Former Waste Oil Handling Facility area, although concentrations of VOCs detected in groundwater had not decreased. An additional review of this corrective action in 2007, the *Supplemental Evaluation to the 2003 Five Year Evaluation Report for the X-740 Phytoremediation*

Area (DOE 2007b), found that the phytoremediation system had not performed as predicted by groundwater modeling. Maintenance of the phytoremediation system was discontinued with the approval of Ohio EPA in 2011. The remaining trees comprising the phytoremediation system were removed in 2018.

In 2008, DOE developed the *Work Plan for the X-740 Groundwater Plume Optimization* (DOE 2008f). The work plan included aquifer performance tests and *in situ* chemical oxidation to reduce concentrations of VOCs in the X-740 groundwater plume. Three rounds of oxidant injections were completed in 2008. The oxidant that was injected into the X-740 groundwater plume briefly reduced TCE concentrations detected in some of the wells, but concentrations returned to pre-injection levels by the end of 2008.

In 2010, an EAB pilot study was approved by Ohio EPA to address the X-740 groundwater plume. Emulsified oil, a slow-acting fermentable carbon compound, was injected into the area during December 2010 and January 2011 as specified in the approved EAB pilot study. Monitoring for the EAB pilot study began in 2011 and continued through 2015.

The *Final Report for the X-740 Pilot Study* (DOE 2016a) found that the EAB pilot study achieved both objectives of 1) determining if EAB could successfully treat TCE contamination present in the X-740 groundwater plume, and 2) obtaining specific design parameters for optimization. Based on the successful results of the EAB pilot study, optimization and full-scale implementation was not required, as the pilot study itself met the objectives with the degradation of TCE contamination. This remedy was selected by Ohio EPA as the final corrective measure for the X-740 groundwater plume in the Deferred Units Decision Document (Ohio EPA 2023), thereby replacing the failed phytoremediation corrective measure.

In 2021, the X-740 groundwater plume was excavated in accordance with the NRD DFF&O and the *X-740 Groundwater Plume Area Excavation Work Plan* (DOE 2020). Twenty wells that were part of the IGWMP for the X-740 area were removed to prepare for excavation of the groundwater plume. Three monitoring wells (two Gallia wells and one Berea well) remained that were outside of the excavation area. Seven new wells were installed in 2022 after excavation was completed and the area was restored. The *Field Work Completion Report for the X-740 Groundwater Plume Area Excavation* (DOE 2022c) documents this excavation project.

Five wells that are part of the IGWMP for the X-740 area were sampled in 2025. Tables 3 and 6 provide the sampling schedule and monitoring parameters for the wells that were sampled in 2025. Figure 8 shows all the wells that are part of the monitoring program for the X-740 Former Waste Oil Handling Facility. The IGWMP provides details on the monitoring program for this area. Appendix C provides the 2025 monitoring data for the X-740 Former Waste Oil Handling Facility.

1.3.10 X-530A Switchyard Complex

The X-530A Switchyard Complex, built between 1953 and 1955, includes the switchyard, switch house, valve houses, and other buildings/areas. The X-530A Switchyard Complex covers an area of approximately 20.5 acres and contains electrical transformers and circuit breakers, some of which contained PCB-contaminated oil. The bed of the X-530A Switchyard contains 2 to 3 ft of limestone cobbles underlain by a grounding grid. Beneath the grid is clayey soil with French drains oriented north-south. The southern half of the switchyard drains into a storm sewer that flows into the X-230J5 West Holding Pond before discharging into the West Drainage Ditch. The northern half of the switchyard drains into another storm sewer before discharging to the West Drainage Ditch.

During the 1996 Quadrant III RFI, contaminants were detected in soil and groundwater samples. In the Quadrant III Decision Document, Ohio EPA indicated that the X-530A Switchyard Complex met the

criteria set forth by the PORTS Decision Team and further investigation/remediation was deferred to D&D (Ohio EPA 1999a). Based on the results of sampling completed during the Deferred Units RFI, the X-530A Switchyard Complex was added to the IGWMP.

One well (see Figure 8) is sampled annually for VOCs and chromium (see Tables 3 and 6). The IGWMP provides details on the monitoring program for this area. Appendix C provides the 2025 monitoring data for the X-530A Switchyard Complex.

1.3.11 X-744N, P, and Q Warehouses

In the early 1950s, while construction of PORTS was underway, the area now occupied by the X-744N, P, and Q Warehouses served as the Peter Kiewit Contractors headquarters and vehicle parking area. The X-744N, P, and Q Warehouses, approximately 14,500 square ft each, were constructed in 1988. The warehouses were built on concrete pads that were part of the original structures that had been removed prior to 1976. Drums containing lithium hydroxide were stored in the warehouses. Various other materials, including office equipment, road maintenance equipment, and recyclables have also been stored in the X-744N, P, and Q Warehouses.

During construction of the Gas Centrifuge Enrichment Plant in the early 1980s, the area north of the contractors access road and adjacent to the X-744N, P, and Q Warehouses was used for borrow and fill. Construction debris was reportedly discarded in this area. During construction, the X-2230N West Holding Pond and the X-2230M Southwest Holding Pond were dredged because of the rapid accumulation of silt in runoff from the disturbed areas.

In the Quadrant III Decision Document, Ohio EPA indicated that the X-744N, P, and Q Warehouses met the criteria set forth by the PORTS Decision Team and further investigation/remediation was deferred to D&D (Ohio EPA 1999a). Based on the results of sampling completed during the Deferred Units RFI, the X-744N, P, and Q Warehouses were added to the IGWMP.

One well (see Figure 9) is sampled annually for cobalt and nickel (see Tables 3 and 6). The IGWMP provides details on the monitoring program for this area. Appendix C provides the 2025 monitoring data for the X-744N, P, and Q Warehouses.

1.3.12 X-611A Former Lime Sludge Lagoons

The X-611A Former Lime Sludge Lagoons in Quadrant IV (see Figure 10) were three adjacent unlined sludge retention lagoons constructed in 1954 and used for disposal of lime sludge waste from the site water treatment plant from 1954 to 1960. The lagoons, which had a capacity of approximately 295,000 cubic yards, cover a surface area of approximately 18 acres. The lagoons were constructed in a low-lying area that included Little Beaver Creek. As a result, approximately 1500 ft of Little Beaver Creek was relocated to a channel just east of the lagoons.

In accordance with the *Decision Document X-611A Solid Waste Management Unit* (Ohio EPA 1996b), DOE developed a prairie habitat at this area by placing a soil cover over the north, middle, and south lagoons. A soil berm was constructed outside the northern boundary of the north lagoon to facilitate shallow accumulation of water in this low-lying area. In 2002, a five-year review was completed for the X-611A Former Lime Sludge Lagoons to evaluate the effectiveness of the corrective measures implemented at this area (see the report entitled *X-611A Prairie and the X-749B Peter Kiewit Landfill Five-Year Evaluation Report for the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio,* [DOE 2002]). The report found that the soil cover and prairie habitat constructed at the X-611A Former Lime Sludge Lagoons were meeting the corrective action objectives for this unit by eliminating exposure pathways to the contaminants in the sludge at this area.

The *Second Five-Year Review for the X-611A Prairie* (DOE 2008d), *Third Five-Year Review for the X-611A Prairie* (DOE 2013c), *Fourth Five-Year Review for the X-611A Prairie* (DOE 2018a), and *Fifth Five-Year Review for the X-611A Prairie* (DOE 2023b), found that the soil cover and prairie habitat were continuing to meet the corrective action objectives for this unit by eliminating exposure pathways to the contaminants in the sludge at this area.

Six wells (see Figure 10 and Tables 4 and 6) are sampled semiannually as part of the monitoring program for this area. The IGWMP provides details on the monitoring program for this area. Appendix D provides the 2025 monitoring data for the X-611A Former Lime Sludge Lagoons.

1.3.13 X-735 Landfills

Several distinct waste management units are contained within the X-735 Landfills area in Quadrant IV (see Figure 11). The main units consist of the hazardous waste landfill, referred to as the X-735 RCRA Landfill (Northern Portion), and the X-735 Industrial Solid Waste Landfill (Southern Portion). The X-735 Industrial Solid Waste Landfill includes the industrial solid waste cells, asbestos disposal cells, and the closed chromium sludge monocells A and B. The chromium sludge monocells contain a portion of the chromium sludge generated during the closure of the X-616 Chromium Sludge Surface Impoundments.

Initially, the Ohio EPA and Pike County Department of Health approved a total of 17.9 acres for landfill disposal of conventional solid wastes. The landfill began operation in 1981. During operation of the landfill, DOE investigations indicated that approximately 12,000 pounds of wipe rags contaminated with solvents had been disposed inadvertently in the northern portion of the landfill. Historical data indicated that the wipe rags contaminated with solvents most likely contained methyl ethyl ketone, which was considered a hazardous waste. The contaminated rags were removed immediately from the solid waste stream by instituting new management controls to isolate contaminated rags as hazardous waste.

Waste disposal in the northern area ended in 1991 and Ohio EPA determined that the area required closure as a RCRA hazardous waste landfill. Consequently, this unit of the sanitary landfill was identified as the X-735 Landfill (Northern Portion). A buffer zone was left unexcavated to provide space for groundwater monitoring wells and a space between the RCRA landfill unit and the remaining southern portion, the X-735 Industrial Solid Waste Landfill. DOE has conducted routine groundwater monitoring at the X-735 Landfills since 1991.

The industrial solid waste portion of the X-735 Landfills includes a solid waste section and an asbestos waste section. The X-735 Industrial Solid Waste Landfill, not including the chromium sludge monocells, encompasses a total area of approximately 4.1 acres. Operation of the X-735 Industrial Solid Waste Landfill ceased in 1997, and this portion of the landfill was capped in 1998. The entire area of the X-735 Landfills is in post-closure monitoring under solid waste regulations as described in the 1999 and 2011 DFF&Os on Integration.

A Groundwater Quality Assessment of the X-735 Landfills was initiated in 2005. Assessment monitoring continued through 2007. Based on the results of the assessment monitoring program, the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a) was submitted to Ohio EPA and approved in March 2008. Gallia wells at the X-735 Landfills are monitored under the Corrective Measures Plan, and Berea wells continue to be monitored as required by detection monitoring requirements. The IGWMP provides the details for both of these monitoring programs.

In 2025, 17 wells (see Figure 11 and Tables 4 and 6) were sampled as part of the monitoring program for this area. Appendix D includes the X-735 monitoring data required for the wells in this area.

1.3.14 X-734 Landfills

The X-734 Landfills in Quadrant IV (see Figure 12) consist of three landfill units: the X-734 Sanitary Landfill (approximately 3.4 acres), the X-734A Construction Spoils Landfill (approximately 7.6 acres), and the X-734B Construction Spoils Landfill (approximately 2.6 acres). Waste disposal at the X-734 Sanitary Landfill was discontinued in 1981 when the X-735 Landfill began operations. Waste disposal at the X-734A Construction Spoils Landfill was discontinued in 1985.

Detailed records of materials disposed in the landfill were not kept. However, wastes known to be disposed at the X-734 Sanitary Landfill include trash and garbage, construction spoils, organic solvents, and waste containing unspecified levels of heavy metals. Empty drums were also disposed in the X-734A Construction Spoils Landfill.

Waste disposed in the X-734B included construction spoils, fly ash, trees, railroad ties, broken concrete, stumps, roots, brush, rotten wood, and other wastes from clearing and grubbing operations. Other materials reportedly disposed at X-734B may have included sanitary waste, empty paint cans, empty 55-gallon drums, and uranium-contaminated soil from the X-342 area.

The X-734 Sanitary Landfill, X-734A Construction Spoils Landfill, and X-734B Construction Spoils Landfill were closed after waste disposal ceased in 1981 or 1985 in accordance with the solid waste regulations in effect at that time, and no groundwater monitoring of the unit was required. However, the X-734 Landfills were investigated during the RFI for Quadrant IV. Organic and inorganic contaminants were identified in groundwater, surface water, and sediment within the X-734 Landfills area.

The Decision Document for the X-734 Landfill Area in Quadrant IV of the Portsmouth Gaseous Diffusion Plant (Ohio EPA 1999b) required installation of a multimedia cap on the X-734/X-734A Landfills and a soil cap on the X-734B Landfill. A small area of poplar trees for phytoremediation was planted downgradient of the X-734B Landfill. Remedial effectiveness monitoring of groundwater at the X-734 Landfills began in April 2001 as specified in the IGWMP. Monitoring parameters have included the COCs identified for groundwater in the X-734 Decision Document (Ohio EPA 1999b).

The *First Five-Year Review for the X-734 Landfill Area* (DOE 2008b) found that construction of the caps on the landfills had achieved corrective action objectives by isolating contaminants in soil and sediment from potential receptors. The caps were also preventing contaminants from migrating from soil to groundwater and from groundwater to surface water.

The *Second Five-Year Review for the X-734 Landfill Area* (DOE 2013b), *Third Five-Year Review for the X-734 Landfill Area* (DOE 2018d), and *Fourth Five-Year Review for the X-734 Landfill Area* (DOE 2023e) found that the landfill caps were continuing to achieve corrective action objectives by isolating contaminants in soil and sediment from potential receptors. The caps have also prevented contaminants from migrating from soil to groundwater and from groundwater to surface water.

Fifteen wells (see Figure 12 and Tables 4 and 6) are sampled semiannually under the monitoring program for this area. Appendix D provides the 2025 monitoring data for the X-734 Landfills.

1.3.15 X-533 Former Switchyard Complex

The X-533 Former Switchyard Complex in Quadrant IV (see Figure 13) consisted of a switchyard containing electrical transformers and circuit breakers, associated support buildings, and a transformer cleaning pad. The *US DOE Portsmouth QIV Decision Document* (Ohio EPA 2000) designates the specific buildings and areas within this complex as deferred units. D&D of the X-533 Former Switchyard Complex began in 2010 and was completed in 2011. The groundwater area of concern is located north of the former switchyard and associated support buildings near the remaining transformer cleaning pad.

In 1996, the X-533 Former Switchyard Complex was identified as an area of concern for potential metals contamination based on historical analytical data for groundwater wells in this area. Samples from wells in this area were collected in 1998 and 1999 to assess the area for metals contamination. The results of this sampling are described in the *Special Study for Metals and Radiological Parameters in Groundwater* (DOE 2000b). Based on the concentrations of metals in groundwater in the area, the X-533 Former Switchyard Complex was added to the PORTS groundwater monitoring program in 2001.

In 2010, an investigation of soils at the X-533 Former Switchyard Complex was completed. Two areas of soil contaminated with PCBs and one area of soil contaminated with arsenic were removed. Contaminated soil was not identified near the groundwater monitoring wells included in the IGWMP for this area. The *RCRA Investigation and Soil Removal Report for the X-533 Switchyard Complex* (DOE 2011c) provides additional information about this project.

Wells in the X-533 Former Switchyard Complex were sampled during the Deferred Units RFI. Based on the results of this sampling, monitoring for chromium and cobalt was added to the monitoring program for the X-533 Former Switchyard Complex as required by the Deferred Units RFI/CMS Report (DOE 2021b).

Three wells (see Figure 13 and Tables 4 and 6) are sampled semiannually for cadmium, chromium, cobalt, and nickel under the monitoring program for this area. Appendix D provides the 2025 monitoring data for the X-533 Former Switchyard Complex.

1.3.16 X-230J6 Northeast Holding Pond and Northeast Drainage Ditch

The X-230J6 Northeast Holding Pond was constructed to control sedimentation associated with storm water runoff from a storm sewer. Based on construction practices during the time and unavailability of "as-built" drawings for the holding pond, it is likely that the holding pond was constructed using low-permeability soil materials obtained on site. The discharge from a storm sewer enters the western branch of the Northeast Drainage Ditch upstream from the X-230J6 Northeast Holding Pond. This storm sewer drains the southeast and eastern portions of the X-533 Former Switchyard Complex, the northwestern portion of the X-333 Process Building, and the X-633 Former Recirculating Cooling Water Complex.

The X-230J6 Northeast Holding Pond, which is regulated as NPDES Outfall 011, discharges to the eastern branch of the Northeast Drainage Ditch. Downstream from the X-230J6 Northeast Holding Pond, the eastern branch of the Northeast Drainage Ditch flows to Little Beaver Creek on the northwest side of the X-611A Former Lime Sludge Lagoons.

The X-230J6 Northeast Holding Pond and Northeast Drainage Ditch were investigated during the 1996 Quadrant IV RFI. In the Quadrant IV Decision Document, Ohio EPA indicated that the X-230J6 Northeast Holding Pond, Monitoring Facility, Secondary Oil Collection Basin, and Northeast Drainage Ditch met the criteria set forth by the PORTS Decision Team and further investigation/remediation were deferred to D&D (Ohio EPA 2000).

The Deferred Units RFI investigated soil, sediment, surface water, and groundwater associated with the X-230J6 Northeast Holding Pond and Northeast Drainage Ditch in 2015-2016. Based on the results of samples collected during the Deferred Units RFI, the X-230J6 Northeast Holding Pond and Northeast Drainage Ditch were added to the IGWMP.

Three wells are sampled annually under the monitoring program for this area (see Figure 10 and Tables 4 and 6). Appendix D provides the 2025 monitoring data for the wells that monitor the X-230J6 Northeast Holding Pond and Northeast Drainage Ditch.

1.3.17 X-342 Fluorine Buildings

The X-342A Feed Vaporization and Fluorine Generation Building is a one-story, 13,800-square-foot steel-framed building with a concrete slab floor. It shares the north side and half of the west side wall with the X-344A Uranium Hexafluoride Sampling Facility. The X-342B Fluorine Storage Building is a one-story, 1,500-square-foot, concrete and steel building covering three fluorine storage tanks connected to a covered outside manifold station. The X-342 Buildings were used to feed and sample uranium hexafluoride and to generate and purify fluorine.

Soil, surface water, sediment, and groundwater were sampled during the 1996 Quadrant IV RFI. In the Quadrant IV Decision Document, Ohio EPA indicated that the X-342A Feed Vaporization and Fluorine Generation Building and the X-342B Fluorine Storage Building met the criteria set forth by the PORTS Decision Team and further investigation/remediation were deferred to D&D (Ohio EPA 2000).

Soil and groundwater samples were collected from the X-342 area for the Deferred Units RFI in 2015. Based on the results of this sampling, the X-342 Fluorine Buildings were added to the IGWMP.

Three wells are sampled annually for cobalt under the monitoring program for this area (see Figure 14 and Tables 4 and 6). Appendix D provides the 2025 monitoring data for the wells that monitor the X-342 Fluorine Buildings.

1.3.18 X-630 Former Recirculating Cooling Water Complex

The X-630 Former Recirculating Cooling Water Complex was constructed in 1954 and included a recirculating cooling water pump house with a below-grade wet well, two cooling towers with covered basins, and associated valve vaults and piping. The water pump house contained pumps that recirculated cooling water from the X-330 Process Building to the cooling towers. Chemicals were added to the cooling water as corrosion inhibitors, fungicides, microbicides, and pH adjustors.

Soil and groundwater at the X-630 Former Recirculating Cooling Water Complex were sampled during the 1996 Quadrant IV RFI. In the Quadrant IV Decision Document, Ohio EPA indicated that the X-630 Former Recirculating Cooling Water Complex met the criteria set forth by the PORTS Decision Team and further investigation/remediation was deferred to D&D (Ohio EPA 2000).

Demolition of the above-grade structures that were part of the X-630 Former Recirculating Cooling Water Complex was completed in 2011. A RCRA investigation of soils and groundwater was conducted at the X-630 Former Recirculating Cooling Water Complex during 2010-2011 (DOE 2010d). Groundwater samples were collected for a special study in this area from 2012 through 2023. Soil sampling data from 2011 and data collected from the special study wells were evaluated for the Deferred Units RFI/CMS Report (DOE 2021b). Based on the soil data, the X-630 Former Recirculating Cooling Water Complex was added to the IGWMP.

One well is sampled annually for arsenic and chromium under the monitoring program for this area (see Figure 14 and Tables 4 and 6). Appendix D provides the 2025 monitoring data for the well that monitors the X-630 Former Recirculating Cooling Water Complex.

1.4 SURFACE WATER MONITORING

Surface water monitoring is conducted in conjunction with groundwater monitoring to determine if contaminants present in groundwater are detected in surface water samples. In addition, the Deferred Units RFI/CMS Report (DOE 2021b) added monitoring parameters to some existing surface water sampling locations to evaluate surface water that may be impacted by COCs that were detected in sediment at specific deferred units. These COCs are polycyclic aromatic hydrocarbons (PAHs) and selected metals (arsenic, cobalt, iron, manganese, and thallium).

Surface water samples are collected quarterly from 14 locations (see Figure 15 and Tables 5 and 6). Appendix E provides the 2025 monitoring data for the surface water monitoring program. The purpose of each surface water monitoring location is listed below:

- East Drainage Ditch sample location EDD-SW01 monitors the potential impact of metals and PAHs in sediment at the X-230J7 East Holding Pond, Oil Separation Basin, and East Drainage Ditch on surface water quality in East Drainage Ditch.

- Little Beaver Creek and East Drainage Ditch sample locations LBC-SW01, LBC-SW02, and EDD-SW01 assess potential groundwater discharges from the X-701B Former Holding Pond area.

- Little Beaver Creek sample location LBC-SW03 assesses potential contamination from the X-611A Former Lime Sludge Lagoons.

- All Little Beaver Creek sampling locations monitor the potential impact of metals and PAHs in sediment at Little Beaver Creek on surface water quality in Little Beaver Creek.

- Big Run Creek sample location BRC-SW01 assesses potential groundwater discharges from the Quadrant I Groundwater Investigative (5-Unit) Area.

- Big Run Creek sample location BRC-SW05 monitors potential discharges from the groundwater collection systems on the east side of the X-749 and PK Landfills, as well as the Quadrant I Groundwater Investigative (5-Unit) Area.

- Big Run Creek sample location BRC-SW02 (downstream from BRC-SW01 and BRC-SW05) monitors potential discharges from the Quadrant I Groundwater Investigative (5-Unit) Area, X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility, and PK Landfill.

- All Big Run Creek sample locations monitor the potential impact of metals in sediment at Big Run Creek on surface water quality in Big Run Creek.

- The Southwestern Drainage Ditch is sampled at two locations, UND-SW01 and UND-SW02, to assess potential groundwater discharges to this ditch and the X-2230M Holding Pond from the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility.

- The North Holding Pond sample locations NHP-SW01 and LBC-SW04 assess potential groundwater discharges from any unknown Quadrant IV sources.

- North Holding Pond sample location NHP-SW01 monitors the potential impact of metals and PAHs in sediment at the X-230L North Holding Pond, North Drainage Ditch, and Unnamed Construction Fill Area on surface water quality in the North Drainage Ditch.

- The West Drainage Ditch sample locations WDD-SW01, WDD-SW02, and WDD-SW03 assess potential groundwater discharges from the X-616 Former Chromium Sludge Surface Impoundments and X-740 Former Waste Oil Handling Facility to the West Drainage Ditch and the X-2230N Holding Pond.

1.5 WATER SUPPLY MONITORING

Residential drinking water sources near PORTS are monitored routinely in accordance with the requirements of Section VIII of the September 1989 Consent Decree between the State of Ohio and DOE and the water supply monitoring requirements contained in the IGWMP.

The purpose of the program is to sample groundwater drinking water sources from area residents who request the sampling to assure that their wells have not been adversely affected by plant operations. Although this program may provide an indication of contaminant transport off site, it should not be interpreted as an extension of the on-site groundwater monitoring program. Participation in the program is voluntary, and results are not used in hydrogeologic or geochemical investigations due to the lack of knowledge of how residential wells were constructed and due to the presence of various types of pumps that may not be ideal equipment for sampling.

Three residential drinking water sources were part of the water supply monitoring program in 2025 (see Figure 16 and Tables 5 and 6). One of the three residential water supplies, RES-017, was not sampled in 2025 because the property owner had not renewed the license agreement that allows DOE access to the property for sampling. The PORTS water supply is also sampled as part of this program. Sampling locations may be added or deleted if requested by a resident and as program requirements dictate. Residential wells are sampled semiannually. Appendix E provides the 2025 monitoring data for the water supply monitoring program.

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2. GEOLOGY AT PORTS

This section provides a brief discussion of the geologic setting at PORTS including topography, geologic history, geologic structure, stratigraphy, and hydrogeology.

2.1 TOPOGRAPHY

PORTS occupies an upland area of southern Ohio with an average land surface elevation of 670 ft above mean sea level. The plant site sits in a mile-wide abandoned river valley situated approximately 130 ft above the Scioto River floodplain to the west. In much of the industrialized area of PORTS, the original topography has been modified and graded for construction of buildings and other facility components. Much of the industrialized area of PORTS is located on fill that was removed from the higher elevations of the plant site and placed in existing drainage valleys and depressions.

Local topography is dominated by ancient and recent streams at PORTS. The predominant landform in the site area is an undulating, broad, filled, ancient river valley. The valley is oriented north to south and is bounded on the east and west by deeply dissected ridges or low-lying hills. The surface of the river valley is modified by recent streams. A small valley is formed by Little Beaver Creek; this creek flows in a northwesterly direction across the middle of the site, just north and east of the main industrialized area. Other small valleys formed by streams have cut into the flat-lying unconsolidated deposits on which PORTS is sited. One of these valleys is that of a westward-flowing stream, the West Drainage Ditch, which is near the west-central area of the plant site. Two more streams are located in the southern portion of the industrialized area. In the southeast portion of the site, the southerly flowing stream, Big Run Creek, is situated in a relatively broad, gently sloping valley. An unnamed southerly and westerly flowing stream in the southwest portion of the site (the Southwestern Drainage Ditch) has formed a narrow, steep-walled valley.

2.2 GEOLOGIC HISTORY

The bedrock beneath PORTS is comprised of sandstone and shale deposited in an inland sea during the Mississippian Period (approximately 230 million years ago). The area was subsequently uplifted and gently folded. Erosion produced the deeply dissected, knobby terrain that characterizes southern Ohio.

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

The Portsmouth River, a north flowing tributary of the Teays, flowed across the area that is now occupied by PORTS. The Portsmouth River eroded a valley into bedrock (from shallowest to deepest: Cuyahoga shale, Sunbury shale, and in localized areas the Berea sandstone). The Sunbury was eroded into a wedge that diminishes to the west and exposed the Berea bedrock on the western third of the site. As the Portsmouth River meandered across the valley, silt, sand, and gravel were deposited; these unconsolidated fluvial deposits form the Gallia member (Gallia) of the Teays Formation. Subsequently, an advancing glacier north of PORTS blocked the northwestward flow of the Teays River, and a glacial lake, Lake Tight, filled the valleys of the Teays River and its tributary, the Portsmouth River. The Minford member (Minford) of the Teays Formation consists of the lacustrine silts and clays accumulated in the lake. The Minford generally is composed of a lower portion of clayey silts, indicative of shallow lake levels or over-bank deposits, that grade into the upper portion of a series of laminated silty clays that probably were deposited as Lake Tight increased in size and depth.

Lake Tight overflowed its banks and initiated the "deep stage drainage"; the most significant "deep stage" stream in southern Ohio was the south-flowing Newark River. This river occupied the course of the

present day Scioto River from Chillicothe to Portsmouth. As the glacier retreated, meltwater moved through the Newark River Valley and partially backfilled it with outwash. The Scioto River is situated on a thick layer of outwash in the valley formed by the Newark River.

2.3 GEOLOGIC STRUCTURE

The geologic structure of the area is comprised of rock strata dipping gently to the east-southeast at approximately 30 ft/mile (0.3 degree). No known major or minor faults are in the area; however, two distinct joint sets (i.e., fractures) are present in outcrops of thin (2- to 8-in. thick) sandstone laminations in the Cuyahoga Formation and the lower Berea/upper Bedford Formations. Azimuths for joint sets are N65°E and N25°W. Bedding plane fractures also have been identified.

2.4 STRATIGRAPHY

The unconsolidated Gallia and Minford members of the Teays Formation beneath PORTS are not continuous with the unconsolidated deposits in the Scioto River Valley to the west. A bedrock ridge forms the western valley wall that separates the two groups of unconsolidated deposits. In the vicinity of PORTS, the Cuyahoga, Sunbury, and Bedford Formations are predominantly shales, while the Berea Formation is predominantly sandstone. Figure 17 provides a schematic block diagram of PORTS geology and a diagram of the general stratigraphy at PORTS.

2.4.1 Minford Member

The Minford is a lacustrine deposit consisting of two units with a gradational contact: the upper unit is predominantly silty clay with some very fine-grained sand and the lower silt unit is composed of clayey silt and very fine to fine-grained sand. Both units are continuous beneath PORTS. Wells installed in the Minford are designated by an "M" at the end of the well name (e.g., X749-99M).

2.4.2 Gallia Member

The Gallia, commonly referred to as the Gallia sand and gravel, is a fluvial deposit underlying the Minford member at a depth of approximately 25 ft below ground surface. The Gallia typically consists of a red-brown, clayey, medium to coarse sand and gravel. It overlies bedrock and has a mean thickness of slightly greater than 3 ft. The Gallia is usually poorly-sorted, often containing silt and clay as well as numerous pebble to cobble-sized rock fragments. The Gallia is commonly absent near bedrock highs, such as the bedrock valley walls. The coarser sands and gravels usually occur near the base of the unit and were deposited as point bar and/or channel lag deposits. The contact between the Minford and Gallia members varies from gradational to sharp.

The Gallia is discontinuous across the site (see Figure 18). The Gallia is not present in the X-611A Former Lime Sludge Lagoons and is partially absent in the X-633 Former Recirculating Cooling Water Complex and X-533 Former Switchyard Complex. The Gallia is also absent in the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility and PK Landfill monitoring areas near Big Run Creek.

Monitoring wells installed in the Gallia are designated by a "G" or "GA" at the end of the well name (e.g., X749-38G or X735-04GA). Wells identified with a "G" in areas where the Gallia is not present are installed in unconsolidated materials above bedrock (the Sunbury or Berea).

2.4.3 Cuyahoga Shale

The Cuyahoga Formation, commonly referred to as the Cuyahoga shale, is the uppermost bedrock formation in the geographic area. It is a moderately-hard, thinly-laminated shale with numerous sandstone laminations. It forms hills surrounding the facility but is not found beneath the industrial portion of PORTS.

2.4.4 Sunbury Shale

The Sunbury shale is typically the uppermost bedrock unit beneath the PORTS facility. It is a competent black shale that averages about 10 to 15 ft in thickness beneath the eastern portion of the site, except where it is dissected by Little Beaver Creek or Big Run Creek. Beneath the western portion of the site, the ancient Portsmouth River eroded through the Sunbury shale and exposed the Berea sandstone. In this area, the Sunbury is absent and the Berea sandstone is the uppermost bedrock unit. The Sunbury is not present in the X-616 Former Chromium Sludge Surface Impoundments and the X-740 Former Waste Oil Handling Facility. In these monitoring areas, the Gallia is directly above the Berea sandstone and groundwater contaminants have been detected in both the Gallia and Berea.

2.4.5 Berea Sandstone

The Berea Formation, commonly referred to as the Berea sandstone, is present beneath most of the PORTS reservation, with the exception of the northern portion of the X-734 Landfills, and the streams on the western side of PORTS (see Figure 19). The Berea sandstone underlies the Sunbury shale on the eastern portion of the facility, and underlies the unconsolidated Minford and Gallia members of the Teays Formation on the western portion of the facility. A thin (1- to 3-in) zone of sulfide mineralization occurs at the interface between the Sunbury shale and the Berea sandstone. The Berea sandstone is approximately 30 ft thick. The upper portion of the Berea Formation, approximately 10 to 15 ft thick, is composed of a light-gray, hard, thickly bedded, fine-grained sandstone; the lower portion, approximately 5 to 20 ft thick, has numerous interlayered shale laminations and is very similar to the underlying Bedford Formation.

Monitoring wells installed in the Berea are designated by a "B" or "BA" at the end of the well name (e.g., X749-54B or X611-02BA). Wells identified with a "B" in areas where the Berea is not present may be installed in the Bedford shale or Cuyahoga shale.

2.4.6 Bedford Shale

The Bedford Formation, commonly referred to as the Bedford shale, is continuous beneath PORTS. It averages 100 ft in thickness, and consists of shale with thin interbeds and laminations of hard, gray, fine-grained sandstone and siltstone. In three local boreholes that penetrated the Bedford, the sandstone interbeds at 570 ft elevation above the national geodetic vertical datum of 1929 were saturated with petroleum.

2.4.7 Soils and Fill

Surface soils at PORTS are composed of loess, colluvium, and more recently deposited alluvium. During construction of the PORTS facility, up to 20 ft of fill was emplaced in some areas. The fill consists predominantly of Minford silt and clay removed from high areas at PORTS and relocated to low areas; this fill is nearly indistinguishable from undisturbed Minford deposits.

2.5 HYDROGEOLOGY

The Gallia has the highest hydraulic conductivity of any of the PORTS geologic units and is the primary groundwater flow and contaminant migration pathway. The hydraulic conductivity of the Minford silt member is somewhat lower than that of the Gallia, but is higher than that of the overlying Minford clay member.

The Berea sandstone is the uppermost bedrock water-bearing unit and a regional groundwater system. The Berea hydraulic conductivity is greater than the hydraulic conductivities of the shales lying above and below it.

The Minford clay member, Sunbury shale, and Bedford shale exhibit lower hydraulic conductivities than the Gallia and Berea units. The Minford clay member forms a semi-confining layer above the Gallia.

The Sunbury shale, when greater than 4 ft thick, forms a confining layer above the Berea sandstone that also restricts the downward migration of groundwater and contaminants from the Gallia to the Berea. The Bedford shale below the Berea is the lowest confining layer in the groundwater flow system due to its great thickness and shale composition.

2.5.1 Hydraulic Conductivities of the Unconsolidated Units

The average hydraulic conductivity for the Minford clay is 2.3×10^{-4} ft/day, and the average hydraulic conductivity for the Minford silt is 4.3×10^{-3} ft/day. These values are based on numerous laboratory tests (Law Engineering Testing Company 1982). The vertical hydraulic conductivities of Minford clay and Minford silt are approximately an order of magnitude lower than their horizontal hydraulic conductivities.

The hydraulic conductivity determined by single-well aquifer tests of the Gallia ranged from 0.11 to 150 ft/day with a mean value of 3.4 ft/day (DOE 1996). Use of area-specific hydraulic conductivity values, however, is recommended for groundwater velocity calculations. The area-specific hydraulic conductivities are obtained from the RFIs and other technical reports.

2.5.2 Hydraulic Conductivities of the Bedrock Units

The estimated hydraulic conductivity of the Sunbury shale, based on numerical groundwater modeling, ranges from 1.6×10^{-4} ft/day to 9.6×10^{-4} ft/day (DOE 1996). The vertical hydraulic conductivity of the Sunbury shale is an order of magnitude lower than its horizontal hydraulic conductivity.

The hydraulic conductivity determined by single-well aquifer tests of the Berea sandstone ranges from 4.5×10^{-3} to 15 ft/day with a mean value of 0.16 ft/day. The higher hydraulic conductivity tends to occur in areas where the Sunbury shale is absent.

2.5.3 Groundwater Flow

The site-wide median depth to water in the Gallia was approximately 14 ft in 2025. Many factors can affect water table depth at a particular location, including seasonal variations due to increased or decreased precipitation, surface coverings such as buildings and parking lots, topography at the location, land use, thickness of the upper clay portion of the Minford Member, presence of storm drains, and operation of groundwater remediation processes (phytoremediation, extraction wells, sumps, and French drains).

Four creeks or drainage channels drain the facility: Little Beaver Creek drains the eastern and northern portion; Big Run Creek and the Southwestern Drainage Ditch drain the southeastern and southwestern portions; and the West Drainage Ditch drains the western portion. All four creeks and drainage ditches dissect the unconsolidated Minford and Gallia, the bedrock-forming Sunbury shale (where present), and Berea sandstone; therefore, groundwater discharges to them.

Groundwater flow beneath PORTS is generally toward one or another of these creeks or drainage ditches, but is also affected within the individual groundwater monitoring areas by groundwater extraction systems. In general, groundwater divides form between the discharge locations (creeks and ditches) along areas of highest groundwater elevation. The groundwater table is usually nearly flat around the divides making delineation of the divides imprecise. Figures 18 and 19 show the general groundwater flow and divides at PORTS for the Gallia and Berea, respectively. The potentiometric maps for the Gallia (Figures 20a and 20b) and Berea (Figures 21a and 21b) can be used to determine specific groundwater flows within the groundwater monitoring areas.

3. GROUNDWATER ELEVATIONS

Groundwater elevations are routinely measured at PORTS to track the direction and velocity of groundwater flow. At a minimum, groundwater elevations are measured semiannually at the IGWMP monitoring areas. Potentiometric maps and groundwater velocity calculations are developed based on these groundwater elevations.

Figures 20a and 20b are the 2025 semiannual Gallia potentiometric maps. Figures 21a and 21b show the semiannual Berea potentiometric maps for 2025. The maps are based on the groundwater elevations measured during the first and third quarters at the Gallia and Berea monitoring wells listed in Table 7. The maps were prepared by hand contouring in accordance with common technical practice.

The groundwater elevations and potentiometric maps are used to calculate representative groundwater flow velocities for each IGWMP monitoring area. The linear velocity of groundwater through porous media is calculated using the Darcy equation.

$$v = (K)(i)/n_e$$

where:
v = linear velocity (ft/day)
K = hydraulic conductivity (ft/day)
i = hydraulic gradient (ft/ft)
n_e = effective porosity (fraction)

The hydraulic gradient for each area has been calculated from the potentiometric maps (see Figures 20a, 20b, 21a, and 21b). For each of the IGWMP monitoring areas, the hydraulic conductivity (K) and effective porosity (n_e) of the water-bearing zones have been determined by previous studies.

In general, groundwater flow directions and velocities in the Gallia and Berea in 2025 were consistent with results from 2024. The excavation project in the Quadrant I Groundwater Investigative (5-Unit) Area continues to affect groundwater elevations in this immediate area.

The following table summarizes the semiannual hydraulic gradients and linear velocities for the Gallia and/or Berea water-bearing units at each IGWMP monitoring area in 2025, with the exception of the X-633 Former Recirculating Cooling Water Complex, X-533 Former Switchyard Complex, and X-744N, P, and Q Warehouses. These areas are not included because the Gallia is mostly or completely absent in these areas and the Berea is not monitored (contamination was not identified in the Berea).

Hydraulic gradients (i) and linear velocities (v) (ft/day) calculated for IGWMP monitoring areas CY 2025

Monitoring area	Gallia[a]						Berea[a]			
X749/X-120 and PKL	Eastern zone		Southern zone		Western zone		Eastern zone		Southern zone	
	K = 5.0		K = 6.0		K = 4.13		K = 1.0		K = 1.0	
	n_e = 0.30		n_e = 0.30		n_e = 0.30		n_e = 0.10		n_e = 0.10	
Quarter	i	v	i	v	i	v	i	v	i	v
1Q	0.012	0.2	0.007	0.1	0.006	0.1	0.018	0.2	0.009	0.1
3Q	0.012	0.2	0.005	0.1	0.005	0.1	0.020	0.2	0.008	0.1
Quad I and X-749A	Northern zone		Southern zone							
	K = 62		K = 62				K = 1.4			
	n_e = 0.25		n_e = 0.25				n_e = 0.10			
Quarter	i	v	i	v			i	v		
1Q	0.004	0.9	*b*	*b*			0.005	0.1		
3Q	0.007	1.6	*b*	*b*			0.007	0.1		
Quadrant II	K = 36.8									
	n_e = 0.25									
Quarter	i	v								
1Q	0.010	1.5					None[c]			
3Q	0.011	1.6								
X-701B	Western zone		Eastern zone							
	K = 57.5		K = 0.5							
	n_e = 0.25		n_e = 0.25							
Quarter	i	v	i	v						
1Q	0.002	0.5	0.033	0.1			None[c]			
3Q	0.003	0.6	0.035	0.1						
X-616	Western zone		Northwestern zone				Western zone		Northwestern zone	
	K = 36.7		K = 36.7				K = 7.5		K = 7.5	
	n_e = 0.25		n_e = 0.25				n_e = 0.10		n_e = 0.10	
Quarter	i	v	i	v			i	v	i	v
1Q	0.009	1.3	0.015	2.2			0.010	0.7	0.018	1.3
3Q	0.010	1.5	0.017	2.5			0.008	0.6	0.020	1.5
X-740	K = 4.25						K = 2.0			
	n_e = 0.20						n_e = 0.10			
Quarter	i	v					i	v		
1Q	0.014	0.3					0.003	0.1		
3Q	0.015	0.3					0.004	0.1		
X-530A	K = 4.25									
	n_e = 0.20									
Quarter	i	v								
1Q	0.003	0.1					None[c]			
3Q	0.004	0.1								

Hydraulic gradients (i) and linear velocities (v) (ft/day) calculated for IGWMP monitoring areas CY 2025 (continued)

Monitoring area	Gallia[a]				Berea[a]	
X-611A, X-230J6, and NE Ditch					K = 2.5 n_e = 0.10	
Quarter					i	v
1Q	None[c]				0.017	0.4
3Q					0.016	0.4
X-735	Northern zone K = 430 n_e = 0.25		Southern zone K = 430 n_e = 0.25		K = 2.5 n_e = 0.10	
Quarter	i	v	i	v	i	v
1Q	0.001	2.5	0.004	6.1	0.0005	0.01
3Q	0.002	3.7	0.005	8.7	0.0001	0.001
X-734	K = 0.75 n_e = 0.25				K = 0.06 n_e = 0.10	
Quarter	i	v			i	v
1Q	0.021	0.1			0.038	0.02
3Q	0.022	0.1			0.039	0.02
X-342/X-630	K = 4.25 n_e = 0.25					
Quarter	i	v				
1Q	0.005	0.1			None[c]	
3Q	0.005	0.1				

[a]Some of the IGWMP monitoring areas are divided into more than one zone to determine the flow velocity and hydraulic gradient because of different directions of groundwater flow, variations in hydraulic gradient, or the absence of the water-bearing zone in parts of the monitoring area.
[b]In 2025, the downgradient Gallia well in the southern zone of the Quad I and X-749A area (near the X-230K Holding Pond) was equal to or higher than the upgradient well; therefore, hydraulic gradient and velocity could not be calculated.
[c]Hydraulic gradients and linear velocities are not provided for the Berea aquifer at Quadrant II, X-701B, X-530A, and X-342/X-630 because insufficient data are available for the Berea in these areas. Hydraulic gradients and linear velocities are not provided for the Gallia aquifer at X-611A/X-230J6/NE Ditch because the Gallia is absent in this area.
K = hydraulic conductivity (ft/day). n_e = effective porosity (fraction). i = hydraulic gradient (ft/ft). v = linear velocity (ft/day).

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4. ANALYTICAL RESULTS

Sampling periods for the PORTS IGWMP are first quarter (January-March 2025), second quarter (April-June 2025), third quarter (July-September 2025), and fourth quarter (October-December 2025).

Groundwater monitoring in January through December of 2025 was completed in accordance with the IGWMP dated May 2024 (DOE 2024b). The IGWMP lists the parameters, analytical method numbers, well numbers or sample locations, and sampling frequencies for routine groundwater and related surface water monitoring at PORTS. Monitoring requirements vary from area to area, although analyses are commonly completed for VOCs, metals, and radionuclides. Field parameters commonly measured include depth to water, dissolved oxygen, temperature, pH, conductivity, and turbidity. Field parameters, especially dissolved oxygen, could not be collected in some wells due to a lack of water remaining in the well after sampling. Tables 1 through 6 provide the sampling schedule and analytical parameters for the IGWMP monitoring areas at PORTS in 2025.

Acetone and methylene chloride were detected in both environmental and blank samples (field and trip blanks) collected in 2025. Acetone and methylene chloride are common laboratory contaminants that are not typically detected in the PORTS groundwater plumes. Detections of VOCs can be qualified as undetected during data validation due to detections of the analyte in the laboratory method blank associated with the environmental sample. Detections of acetone and methylene chloride in groundwater or surface water are not usually discussed in this report because data from the laboratory, trip, and field blanks appear to indicate that these detections are due to sample contamination.

Other VOCs were detected in trip and/or field blanks during 2025. VOCs detected in two or more trip/field blanks are 2-butanone, chloroform, chloromethane, *cis*-1,2-dichloroethene, styrene, toluene, and TCE. These detections indicate that samples (both environmental samples and blank samples) may become contaminated with low concentrations of VOCs during other portions of the sampling process, although contamination can still occur in the laboratory. Other sources of contamination may include storage areas for sampling equipment (such as bottles and blank water), areas in which samples are collected or prepared, sample containers (such as vials for VOC samples), and storage areas after samples are collected (such as refrigerators or sample shipping containers).

Detections of low concentrations of VOCs in blank samples do not indicate that data are not usable; these detections merely indicate that a positive bias for these constituents may be present in environmental samples. Data collected to meet IGWMP requirements are validated and qualified (as appropriate) in accordance with the data validation requirements in the IGWMP.

The analytical results and field measurements for monitoring performed in 2025 are provided in Appendices A through E as listed below:

- Appendix A – Groundwater monitoring required at Quadrant I (X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility, PK Landfill, Quadrant I Groundwater Investigative [5-Unit] Area, and X-749A Classified Materials Disposal Area)

- Appendix B – Groundwater monitoring required at Quadrant II (Quadrant II Groundwater Investigative [7-Unit] Area, X-701B Former Holding Pond, and X-633 Former Recirculating Cooling Water Complex)

- Appendix C – Groundwater monitoring required at Quadrant III (X-616 Former Chromium Sludge Surface Impoundments, X-740 Former Waste Oil Handling Facility, X-530A Switchyard Complex, and X-744N, P, and Q Warehouses)

- Appendix D – Groundwater monitoring required at Quadrant IV (X-611A Former Lime Sludge Lagoons, X-735 Landfills, X-734 Landfills, X-533 Former Switchyard Complex, X-230J6 Northeast Holding Pond and Northeast Drainage Ditch, X-342 Fluorine Buildings, and X-630 Former Recirculating Cooling Water Complex)

- Appendix E – Other IGWMP monitoring (surface water and water supply monitoring).

Duplicate samples (samples collected from the same location, at the same time, and from the same sampling device as the regular sample) are collected at a frequency of one per 20 sampling locations per monitoring area. Duplicate samples are analyzed for the same parameters as the regular sample associated with the sampling location. For simplicity, and due to space limitations in some of the data tables, the results provided in the data tables in this chapter do not include results for duplicate samples. Figures 22-30, which present results for selected monitoring areas, are also based on results for only regular samples. Results for duplicate samples, when collected, are provided in Appendices A through E.

In general, analytical results are compared to PRGs or final remediation levels (FRLs) developed as part of the PORTS RCRA Corrective Action Program. PRGs and FRLs are clean-up goals developed during the RCRA corrective action process that are 1) protective of human health and the environment and 2) comply with applicable or relevant and appropriate requirements. PRGs and FRLs have been developed during the RCRA Corrective Action Program at PORTS as discussed in the following paragraphs.

The initial RCRA investigation of PORTS began in the 1990s. During this initial RCRA investigation, DOE and Ohio EPA identified certain areas called deferred units. These areas were in or adjacent to the gaseous diffusion production and operation areas that were not appropriate for remediation at that time. Remedial activities in these areas would have interrupted ongoing operations, or ongoing operations could have recontaminated the areas. Ohio EPA deferred the investigation and remedial action of soil and groundwater associated with these units until D&D of PORTS began, or until the area no longer met the requirements for deferred unit status.

Therefore, the RCRA Corrective Action program activities in the 1990s and 2000s only addressed the units that could be investigated and remediated (if necessary) at that time, which did not include deferred units. Ohio EPA issued Decision Documents for three quadrants (Quadrant I, Quadrant III, and Quadrant IV) and four specific areas of concern (PK Landfill, X-701B Former Holding Pond, X-734 Landfills, and X-611A Former Lime Sludge Lagoons). These Decision Documents were issued from 1996 through 2003. In general, the Decision Documents identify the COCs and PRGs for each area that required remediation. Deferred units in each quadrant were also identified in the Decision Documents or other related reports.

Investigation of the deferred units began in 2015 and continued into 2020. The Deferred Units RFI/CMS Report provides the results of the investigations of the deferred units and proposed remedial actions (DOE 2021b). In 2023, Ohio EPA issued the Deferred Units Decision Document (Ohio EPA 2023). The Deferred Units Decision Document established FRLs for deferred units that require corrective measures or additional monitoring per the Deferred Units RFI/CMS Report. These FRLs do not apply to units with Decision Documents that were previously finalized during the RCRA Corrective Action Program at PORTS or any other location at PORTS.

Table 8 lists the groundwater COCs and PRGs for each of the PORTS groundwater monitoring areas that are not deferred units. Table 9 lists the FRLs that apply to the deferred units. In addition, two closed landfills, X-749A and X-735, are monitored in accordance with Ohio EPA regulations for industrial solid waste landfills.

In many areas, groundwater samples are also analyzed for constituents that are not COCs, such as additional VOCs, metals, and radionuclides. These constituents are included to simplify monitoring across the multiple areas at PORTS and to provide additional information about the monitoring area.

Concentrations or activities of radionuclides may also be compared to Ohio EPA drinking water standards or DOE derived concentration standards (DOE 2022b).

Sections 4.1 through 4.4 discuss the analytical results for 2025 for the PORTS quadrants. Section 4.5 discusses surface water monitoring and Section 4.6 provides analytical results for water supply monitoring completed in 2025 in accordance with the IGWMP. Section 4.7 provides a summary of special studies included in the IGWMP for 2025.

4.1 QUADRANT I

In Quadrant I, groundwater is monitored at four areas: X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility, PK Landfill, Quadrant I Groundwater Investigative (5-Unit) Area, and X-749A Classified Materials Disposal Facility.

4.1.1 X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility

One hundred two wells and one sump/extraction well (X749-WPW) monitored the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility during CY 2025. Tables 1 and 6 provide the sampling schedule and analytical parameters for the X-749/X-120 wells.

The *U.S. DOE Portsmouth Quadrant I Decision Document* (Ohio EPA 2001) identifies the COCs and PRGs for the X-749/X-120 groundwater plume, which include TCE, other VOCs, and chromium. Table 8 lists these COCs and the associated PRGs that are used to evaluate the groundwater monitoring results for the X-749/X-120 groundwater plume.

VOCs, including TCE, are detected in many of the wells that monitor the X-749/X-120 area. Figure 22 shows the Gallia groundwater TCE plume in this area.

TCE is the primary COC detected in groundwater at the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility. The following table lists the concentrations of TCE detected in selected wells in the X-749/X-120 groundwater plume between the second quarter of 2020 and the fourth quarter of 2025. The final pages of the table provide data for the wells that monitor the boundary of the X-749 Landfill (wells within the X-749 Landfill and just beyond the X-749 Landfill barrier walls).

TCE concentrations (in µg/L) in X-749/X-120 plume wells, second quarter CY 2020 – fourth quarter CY 2025

Sampling event[a,b]	PK-09G	X749-40G	X120-05G	X120-11G	X749-04G	X749-05G	X749-41G	X749-115G
				Northern and northwestern plume wells				
3Q/4Q-2025	**206**	0.88J	**16.8**	**80.2**	**25.1**	**56**	**315**	**175**
2Q-2025	ns	ns	ns	**102**	ns	ns	**299**	ns
3Q/4Q-2024	**720D**	3	**18.3**	**77.9**	**25**	**73.3**	**359J**	**308D**
2Q-2024	ns	ns	ns	**113**	ns	ns	**491D**	ns
3Q/4Q-2023	**724D**	**10**	**15.9**	**111**	**38.5**	**76.9**	**375D**	**195**
2Q-2023	ns	ns	ns	**94.1D**	ns	ns	**265D**	ns
3Q/4Q-2022	**434D**	**28.5**	**13.8**	**139**	**49.5J**	**92.9**	**411DJ**	**76.9**
2Q-2022	ns	ns	ns	**125**	ns	ns	**425D**	ns
3Q/4Q-2021	**353D**	**21.8J**	**10.8**	**124**	**72.8J**	**129**	**500DJ**	**51.1**
2Q-2021	ns	ns	ns	**144**	ns	ns	**262DJ**	ns
3Q/4Q-2020	**340D**	**18**	4.8	**88.1**	**120**	**110**	**105**	**110J**
2Q-2020	ns	ns	ns	**179**	ns	ns	**381D**	ns

Sampling event[a,b]	X120-08G	X120-09G	X120-10G	X749-42G	X749-106G	X749-107G	X749-108G	X749-PZ06G
				Western plume wells				
3Q/4Q-2025	**6.3**	**6.41**	**7.19**	1.93	**8.85**	**10**	**33.8**	**23.2**
2Q-2025	ns	ns	ns	1.72	**9.93**	**10.4**	**37.4**	**18.3**
3Q/4Q-2024	**6.57**	ns	**8.25**	2.95	**9.62**	**10.9**	**41.6**	**22.2**
2Q-2024	ns	ns	ns	3.34	**12.9**	**13.7J**	**46.5**	**23.7**
3Q/4Q-2023	**8.56**	**9.29**	**9.18**	1.62	**14.7**	**16.7**	**40.1**	**28.9**
2Q-2023	ns	ns	ns	2.57	**13.1**	**17.4**	**42.1**	**28.9**
3Q/4Q-2022	**8.43**	ns	**12**	3.88	**16.8**	**20.3**	**47.5**	**32.9**
2Q-2022	ns	ns	ns	2.93	**16.7**	**18.5**	**61.8**	**29.3**
3Q/4Q-2021	**10.1**	**10.2**	**9.76**	2.18	**21.3**	**28**	**57.6**	**37.9**
2Q-2021	ns	ns	ns	2.62	**18J**	**24.6**	**55.6**	**30.1**
3Q/4Q-2020	**12**	ns	**9.7**	4.05	**24.7**	**33.3**	**60.2**	**37.9**
2Q-2020	ns	ns	ns	2.9	**20.3**	**28.6**	**53**	**32.3**

Sampling event[a,b]	X749-07G	X749-26G	X749-27G	X749-28G	X749-29G	X749-30G	X749-33G	X749-PZ07G
				Mid-plume wells				
3Q/4Q-2025	**34.9**	**24.3**	**77.5**	**56.2**	**20.3**	**83.9**	**29.4**	2.5
2Q-2025	**42.7**	**12.1**	**85.8**	ns	ns	ns	**17.3**	ns
3Q/4Q-2024	**40.7**	**20.9**	**89.4**	**27.4**	**76**	**138J**	**37.4**	2.67
2Q-2024	**29.8**	**9.24**	**120**	ns	ns	ns	**21.7**	ns
3Q/4Q-2023	**46.6**	**19.7**	**134**	**33.5**	**73.6**	**134**	**63.3J**	1.04
2Q-2023	**40.1**	2.76	**119**	ns	ns	ns	**29**	ns
3Q/4Q-2022	**47.9**	**16.1**	**116**	**37**	3.29	**157**	**40.7**	0.875J
2Q-2022	**41.6**	3.35	**104J**	ns	ns	ns	**32.9**	ns
3Q/4Q-2021	**48.4**	2.5	**178**	**46.6**	4.79	**153D**	**77.2**	0.916J
2Q-2021	**53.4J**	3.4	**196**	ns	ns	ns	**55.3J**	ns
3Q/4Q-2020	**75.7**	2.86	**198**	**45**	**5.6**	**140J**	**100**	1.5
2Q-2020	**46.9**	**6.25**	**243D**	ns	ns	ns	**33QJ**	ns

TCE concentrations (in µg/L) in X-749/X-120 plume wells, second quarter CY 2020 – fourth quarter CY 2025 (continued)

Sampling event[a,b]	X749-36G	X749-37G	X749-38G	X749-109G	X749-110G	X749-113G	STSW-101G	STSW-102G
				Western/southern mid-plume wells				
3Q/4Q-2025	3.74	**24.5**	**28.4**	1.31	**5.11**	**28.9**	**20.3**	**38.5**
2Q-2025	ns	**6.98**	**16.4**	1.33	4.25	**32.2**	**16.9**	**59.9**
3Q/4Q-2024	**14.2**	**30.8**	**41.2**	1.36	**7.23**	**27.4**	**19.4**	**48.1**
2Q-2024	ns	**9.9J**	**28.5**	1.58	**5.3**	**27.1**	**9.24**	**71.7J**
3Q/4Q-2023	**7.02**	**8.73**	**34.1**	1.31	**9.54**	**32.7**	**24.2**	**44.2**
2Q-2023	ns	**6.45**	**43.3**	1.08	**5.02**	**21.6**	**22**	**55.3**
3Q/4Q-2022	**5.33**	**9.45**	**25.1**	1.84	**9.12**	**24.9**	**26.2**	**62.7**
2Q-2022	ns	**6.65**	**32.8**	1.4	**5.64**	**26.1**	**14.9**	**63.6**
3Q/4Q-2021	**5.12**	**11**	**36.5**	1.34	**8.56**	**25.7**	**23.6**	**80**
2Q-2021	ns	**7.15**	**21.3**	1.02	**6.9**	**28.7**	**21.3J**	**61**
3Q/4Q-2020	2.6	**9.26**	**28.5**	2.56	**17.5J**	**40.8**	**34.9**	**80.8**
2Q-2020	ns	**5.13**	**17**	1.74QUJ	**7.64**	**29**	**23.4QJ**	**64.5QJ**

Sampling event[a,b]	PK-08G	X749-13G	X749-20G	X749-21G	X749-35G	X749-54B	X749-BG9G	X749-PZ02G
				Eastern or southern wells				
3Q/4Q-2025	**10.9**	3J	2.39	1.23	**28.3**	2.87	0.333U	0.333U
2Q-2025	ns	3.82	ns	0.81J	ns	2.16	0.333U	0.333U
3Q/4Q-2024	ns	3.85	2.11	**10.2**	**44.4**	**7.52**	0.333U	0.333U
2Q-2024	ns	3.58	`ns	1.41	ns	1.53	0.3U	0.3U
3Q/4Q-2023	**6.86**	4.71	3.14	3.04	**54.8**	1.89	0.3U	0.3U
2Q-2023	ns	2.71	ns	0.514J	ns	1.82	0.3U	0.3U
3Q/4Q-2022	ns	4.28	3.61	0.926J	**68.7**	1.63	0.3U	1.41
2Q-2022	ns	2.97	ns	0.333U	ns	4.43	0.16U	0.333U
3Q/4Q-2021	**8.99**	4.04	4.14	0.45J	**78**	**9.51**	0.333U	0.333U
2Q-2021	ns	3.71	ns	0.16U	ns	**8.84**	0.16U	0.16U
3Q/4Q-2020	ns	**5.08**	4.8	0.618J	**70**	**18.1**	0.16U	0.192J
2Q-2020	ns	3.77UJ	ns	0.638QUJ	ns	2.11QUJ	0.638U	0.638QUJ

Sampling event[a,b]	X749-117G	X749-119G	X749-121G	X749-122G	X749-WPW
		Unpaired wells within landfill or sump (WPW)			
3Q/4Q-2025	**145**	**15.4**	**46.6**	**723J**	**289**
2Q-2025	ns	ns	ns	ns	**225**
3Q/4Q-2024	**184D**	**40.5**	**50.6J**	**549D**	**613**
2Q-2024	ns	ns	ns	ns	**588DJ**
3Q/4Q-2023	**71.1**	**24.9**	**70**	**637D**	**657D**
2Q-2023	ns	ns	ns	ns	**903D**
3Q/4Q-2022	**215DJ**	**28.6**	**64.1**	**705D**	**542D**
2Q-2022	ns	ns	ns	ns	**506D**
3Q/4Q-2021	**224D**	**22.5**	**75.6D**	**802D**	**344**
2Q-2021	ns	ns	ns	ns	**163J**
3Q/4Q-2020	**130**	**18J**	**71D**	**920D**	**331D**
2Q-2020	ns	ns	ns	ns	**233D**

TCE concentrations (in µg/L) in X-749/X-120 plume wells, second quarter CY 2020 – fourth quarter CY 2025 (continued)

Sampling event[a,b]	X749-120G	X749-06G	X749-PZ13G	X749-08G	X749-PZ12G	X749-09GA
	Paired wells[c] (W)		*Paired wells[c] (S)*		*Paired wells[c] (SE)*	
3Q/4Q-2025	**2650**	**395**	ns	3.5	ns	2.22
2Q-2025	ns	**223**	**29.4**	3.77	2.86	2.15
3Q/4Q-2024	**3570D**	**593**	ns	**5.74**	ns	4.75
2Q-2024	ns	**362D**	ns	**6.13**	ns	2.63
3Q/4Q-2023	**4840DJ**	**506D**	ns	4.33	ns	0.302J
2Q-2023	ns	**349D**	**36.8J**	**5.01**	3.15	3.2
3Q/4Q-2022	**5700D**	**299D**	ns	**5.05**	ns	1.24
2Q-2022	ns	**357D**	ns	**7.01**	ns	4.06
3Q/4Q-2021	**4910D**	**453**	ns	**5.78**	ns	2.88
2Q-2021	ns	**403D**	**40.8**	**6.83**	4.56	**5.88**
3Q/4Q-2020	**6700D**	**561D**	ns	**6.92**	ns	4.27
2Q-2020	ns	**299DQ**	ns	**6.47**	ns	**6.61**

Sampling event[a,b]	X749-PZ11G	X749-10GA	X749-PZ09G	X749-PZ10G
	Paired well[c] (E)		*Paired wells[c] (NE)*	
3Q/4Q-2025	ns	0.333U	ns	**401**
2Q-2025	**32.1**	0.333U	**28.5**	**420J**
3Q/4Q-2024	ns	0.333U	ns	**328**
2Q-2024	ns	0.3U	ns	**418D**
3Q/4Q-2023	ns	0.3U	ns	**489D**
2Q-2023	**37.8**	0.3U	**45.2**	**671DJ**
3Q/4Q-2022	ns	0.662J	ns	**450D**
2Q-2022	ns	0.16U	ns	**403D**
3Q/4Q-2021	ns	0.333U	ns	**356**
2Q-2021	**50.7**	0.184J	**38.3**	**405DJ**
3Q/4Q-2020	ns	0.16U	ns	**390D**
2Q-2020	ns	0.638U	ns	**353D**

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]Results in bold type are at or above the PRG.
[c]Wells that monitor within the landfill (first well) and outside the X-749 Landfill (second well). The location of the well pair is designated (i.e., NE – northeast side of landfill).
D – The reported value is from a dilution. J – estimated. Q – One or more quality control criteria failed. U – undetected. ns – not sampled.

Five new wells in the northeastern portion of the X-749 monitoring area were sampled for VOCs in the third quarter of 2025 (X231B-28G, X749-123G, X749-124G, X749-125G, and X749-126G). These wells were added to the monitoring program based on the results of sampling conducted during the Deferred Units RFI. In 2025, TCE was detected above the PRG (5 µg/L) in one well, X749-123G, at 72.4 µg/L, which has decreased from 2024 (120 µg/L). TCE was detected in the other four wells at concentrations ranging from 1.02 to 3.34 µg/L, which are less than the PRG. TCE was detected in this area during the Deferred Units RFI. Figure 22 shows the locations of these wells and the Gallia groundwater TCE plume in this area.

In the southern portion of the plume, TCE was detected at less than 100 µg/L (34.8-76.8 µg/L) in each of the quarterly samples collected from well X749-67G in 2025. Concentrations of TCE were also less than 100 µg/L (85.8 and 77.5 µg/L) in the second and fourth quarter samples collected from well X749-27G.

These results indicate that TCE is no longer consistently detected above 100 µg/L in any wells that monitor the southern portion of the plume.

On the northern edge of the plume, immediately north of the X-749 Landfill, TCE decreased in 2025 in wells X749-115G and PK-09G. TCE is also decreasing in well X749-40G, which defines the northern edge of the plume. TCE was detected at 0.88 µg/L in well X749-40G, which has decreased from 2024 (3 µg/L) and from a maximum of 28.5 µg/L in 2022.

Extraction well X749-EW09G is located in the northern portion of the X-749/X-120 groundwater plume and is intended to remediate higher concentrations of TCE associated with the former X-120 facility. Well X120-11G, which is immediately north of X749-EW09G, monitors TCE concentrations in this area. The average concentration of TCE detected in 2025 in well X120-11G (91.1 µg/L) is less than 2024 (95.5 µg/L). Well X749-EW09G is extracting contaminated groundwater from this area of higher TCE concentrations associated with the former X-120 facility and has reduced concentrations of TCE in this area.

Extraction well X749-EW08G is intended to control migration of the southwestern portion of the X-749/X-120 groundwater plume. TCE was not detected in the downgradient well X749-66G in 2025.

Wells that monitor the X-749 South Barrier Wall area (in general, the area south of Perimeter Road) are of special interest because this area monitors the southern plant boundary. Off-site monitoring wells WP-01G through WP-07G were sampled either semiannually (WP-01G, WP-02G, WP-04G, WP-05G, and WP-06G) or quarterly (WP-03G and WP-07G) during 2025. No VOCs were detected in any of the off-site wells in 2025.

TCE was not detected above the PRG of 5 µg/L in samples collected from any of the on-site wells in the X-749 South Barrier Wall area except X749-67G. The following table lists concentrations of TCE in the on-site X-749 South Barrier Wall monitoring wells that are currently or were historically part of the TCE plume.

Groundwater extraction well X749-EW07G was installed in 2010 to remediate areas of higher TCE concentrations south of the X-749 Landfill that extend towards monitoring well X749-67G and the X-749 South Barrier Wall area. TCE has decreased in well X749-67G (approximately 350 ft south of the extraction well). The average concentration of TCE detected in 2025 in well X749-67G (62.9 µg/L) is less than the average concentrations in 2020-2024. TCE has also decreased in well X749-110G (approximately 125 ft south of X749-EW07G). The average concentration of TCE detected in 2025 in well X749-110G (4.68 µg/L) has decreased from the average annual concentrations detected in 2020-2024. These results indicate that extraction well X749-EW07G is reducing concentrations of TCE in this area.

TCE was not detected in the following on-site X-749 South Barrier Wall area wells sampled in 2025: X749-64B, X749-68G, X749-96G, X749-97G, X749-98G, X749-99M, X749-100M, X749-101M, X749-104G, X749-105G, X749-PZ03G, and X749-PZ05G.

TCE (in µg/L) detected in on-site X-749 South Barrier Wall wells, first quarter CY 2020 – fourth quarter CY 2025

Sampling event[a,b]	X749-44G	X749-45G	X749-67G	X749-97G	X749-102G	X749-103G	X749-PZ04G
4Q-2025	0.333U	0.333U	**76.8**	0.333U	0.333U	0.79J	0.333U
3Q-2025	0.333U	0.43J	**65**	0.333U	0.333U	0.66J	0.41J
2Q-2025	0.333U	0.9J	**34.8**	0.333U	0.333U	0.87J	0.59J
1Q-2025	0.333U	0.333U	**75.1**	0.333U	0.35J	0.97J	0.333U
4Q-2024	0.333U	0.333U	**84.1J**	0.333U	0.39J	1.01	0.333U
3Q-2024	0.377J	0.43J	**88.8**	0.3U	0.3U	1.14	0.485J
2Q-2024	0.3U	**5.11**	**103**	0.844J	0.3U	1.35	1.69
1Q-2024	0.3U	1.38	**95.8**	0.3U	0.38J	1.08	0.652J
4Q-2023	0.3U	0.502J	**99.6J**	0.3U	0.396J	1.26	0.337J
3Q-2023	0.3U	0.446J	**99.3**	0.3U	0.467J	1.25	0.552J
2Q-2023	0.3U	3.86J	**97.2**	0.372J	0.315J	1.61	0.504J
1Q-2023	0.3U	4.3	**106**	0.3U	0.3U	0.975UJ	1.27
4Q-2022	0.3U	0.604J	**108**	0.3U	0.805J	1.2	1.11
3Q-2022	0.3U	1.78	**105**	0.3U	0.455J	1.85	1.81
2Q-2022	0.16U	**8.41**	**105**	1.2	0.16U	1.08	4.68J
1Q-2022	0.205J	**10.6**	**106**	2.61	0.279J	0.602J	**5.5**
4Q-2021	0.16U	1.77	**129**	0.16U	0.398J	1.71	1.36
3Q-2021	0.16U	4.79	**132**	0.16U	0.16U	1.38	1.93
2Q-2021	0.16U	**8.76**	**118**	0.917J	0.16U	0.673J	2.41
1Q-2021	0.16U	**11.4**	**128**	1.88	0.485J	1.01	1.89
4Q-2020	0.16U	2.93	**143**	0.16U	0.215J	0.891J	1.63
3Q-2020	0.16U	**8.8**	**130**	0.32J	0.16U	0.23J	2.7
2Q-2020	0.638U	**11.4**	**104QJ**	2.33	0.638U	0.638QUJ	3.39QUJ
1Q-2020	0.16U	**14**	**130**	2.9	0.45J	0.21J	4.3

[a]Sampling events are denoted by quarter and calendar year (1Q-2025 is the first quarter of CY 2025).
[b]Results in bold type are at or above the PRG.
D – The reported value is from a dilution. J – estimated. Q – One or more quality control criteria failed. U – undetected.

Other VOCs are also identified as COCs for the X-749/X-120 area in the *U.S. DOE Portsmouth Quadrant I Decision Document* (Ohio EPA 2001). Table 8 lists the COCs and PRGs for the X-749/X-120 area. The other VOCs detected at or above their respective PRGs in X-749/X-120 wells sampled in 2025 are:

- 1,1,1-Trichloroethane (detected in well X749-120G within the X-749 Landfill at 235 µg/L, which exceeds the PRG of 200 µg/L)
- 1,1,2-Trichloroethane (detected in well X749-120G within the X-749 Landfill at 55.7 µg/L, which exceeds the PRG of 5 µg/L)
- 1,1-Dichloroethene (detected in 27 wells [five within the X-749 Landfill] at concentrations ranging from 7.49 to 2540 µg/L, which exceed the PRG of 7 µg/L)
- 1,2-Dichloroethane (detected in seven wells [two within the X-749 Landfill] at concentrations ranging from 5.25 to 61.5 µg/L, which exceed the PRG of 5 µg/L)
- Chloroform (detected in well X749-120G within the X-749 Landfill at 168 µg/L, which exceeds the PRG of 100 µg/L)

- *Cis*-1,2-dichloroethene (detected in well X749-120G within the X-749 Landfill at 594 µg/L, which exceeds the PRG of 70 µg/L)

- Tetrachloroethene (detected in two wells [one within the X-749 Landfill] at concentrations ranging from 11.5 to 104 µg/L, which exceed the PRG of 5 µg/L)

- Vinyl chloride (detected in three wells [two wells within the X-749 Landfill] at concentrations ranging from 2.04 to 14.3 µg/L, which exceed the PRG of 2 µg/L).

Samples collected in the second quarter from four X-749/X-120 wells (X120-11G, X749-09GA, X749-67G, and X749-PZ04G) were analyzed for selected metals (beryllium, cadmium, chromium, manganese, and nickel). Only chromium is identified as a COC for the X-749/X-120 area. Chromium was not detected above the PRG (100 µg/L) in any of these wells.

In the third quarter, six wells that were added to the IGWMP in the northeastern portion of the X-749 monitoring area, as required by the Deferred Units RFI/CMS Report (DOE 2021b), were sampled for selected metals (beryllium, cadmium, chromium, manganese, and nickel). Chromium was detected at 157 µg/L in the sample from well X749-125G, which exceeds the PRG (100 µg/L).

Samples from 46 X-749/X-120 wells, including six wells and the sump within the X-749 Landfill, were analyzed for technetium-99, uranium, and isotopic uranium (uranium-233/234, uranium-235/236, and uranium-238). Technetium-99 was detected in three wells and the sump within the X-749 Landfill, as well as eight wells outside the landfill. The highest activity of technetium-99 detected in wells outside the landfill was 47.6 pCi/L in well X749-27G, which is well below the EPA drinking water standard for technetium-99 (900 pCi/L, based on a 4 mrem/year dose from beta emitters).

Activities of technetium-99 detected in the wells within the X-749 Landfill ranged from 89.5 pCi/L in well X749-PZ09G to 1820 pCi/L in the sump on the southwest side of the landfill (X749-WPW).

Samples from 12 wells, including the sump within the X-749 Landfill, were also analyzed for transuranic radionuclides (americium-241, neptunium-237, plutonium-238, and plutonium-239/240). No transuranics were detected in the samples.

Uranium and uranium isotopes (uranium-233/234, uranium-235/236, and uranium-238), if detected, were detected at low levels typical of naturally-occurring uranium and below the drinking water standard (30 µg/L for uranium).

4.1.2 PK Landfill

Nine wells, two sumps (PK-PL6 and PK-PL6A), and two manholes (MH GW-4 and MH GW-5) that monitor the PK Landfill were sampled during CY 2025. Samples were analyzed for the parameters listed in Tables 1 and 6. Figure 2 shows the groundwater monitoring wells at this area.

The *Decision Document Peter Kiewit Landfill* (Ohio EPA 1996a) states that VOCs were detected in groundwater at the PK Landfill; however, the Decision Document does not specifically identify COCs or PRGs. Therefore, sampling results are compared to the PRGs provided in the *Quadrant I Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 2000a). Table 8 lists the VOCs monitored at the PK Landfill and the associated PRGs.

VOCs are routinely detected in samples collected from wells PK-17B and PK-21B. The following table summarizes VOCs most commonly detected in wells PK-17B and PK-21B from the second quarter of 2020 through the fourth quarter of 2025.

VOCs (in µg/L) detected in wells PK-17B and PK-21B, first quarter CY 2020 – fourth quarter CY 2025

Sampling event[a]	PK-17B				PK-21B				
	1,1-DCA (5860)[b]	*cis*-1,2-DCE (70)	TCE (5)	VC (2)	1,1-DCA (5860)	1,1-DCE (7)	*cis*-1,2-DCE (70)	TCE (5)	VC (2)
4Q-2025	3.76	58.3	0.49J	**18.5**	83.9	0.73J	7.35	0.333U	**7.56**
2Q-2025	3.99	56.8	0.59J	**24.5**	110	0.72J	8.66	0.333U	**6.27**
4Q-2024	3.77	50.8	0.333U	**16.6**	45.7	0.66J	7.35	0.333U	**7.51**
2Q-2024	3.73	62.8	0.3U	**20.9**	126	0.517J	9.41	0.3U	**8.79**
4Q-2023	3.4	57	0.712J	**23**	113	0.987J	9.57	0.342J	**10.1**
2Q-2023	2.96	44.9	0.463J	**14.2**	107	0.708J	8.46	0.3U	**9.58**
4Q-2022	3.17	50.7	0.584J	**22.5**	121J	1.05J	10.4J	0.3UJ	**13.2J**
2Q-2022	1.45	23.4	0.333U	**7.89**	114	0.87J	8.14	0.333U	**5.8**
4Q-2021	3.64	54.9	0.76J	**15.3**	116	0.88J	9.3	0.333U	**8.29**
2Q-2021	3.16	49.8	0.677J	**20.1**	117	1.3	8.53	0.16U	**11.4**
4Q-2020	3.93	62.3	0.996J	**24.2**	131	1.19	10.9	0.16U	**14Q**
2Q-2020	2.01	34.4	0.923UJ	**11**	125	0.998J	9.6	0.638U	**10.5**

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]The PRG for each parameter is provided in parentheses. Results in bold type are at or above the PRG.
1,1-DCA – 1,1-dichloroethane. 1,1-DCE – 1,1-dichloroethene. *cis*-1,2-DCE – *cis*-1,2-dichloroethene. TCE – trichloroethene. VC – vinyl chloride. J – estimated. U – undetected. Q – One or more quality control criteria failed.

No VOCs were detected in the samples collected in 2025 from wells PK-10G, PK-11G, PK-14G, PK-16B and PK-18B. VOCs were detected at concentrations less than the respective PRGs in the samples collected from wells PK-15B and PK-19B. No VOCs were detected above the respective PRGs in the wells that monitor the PK Landfill, with the exception of vinyl chloride in PK-17B and PK-21B as identified in the above table.

VOCs are routinely detected at low concentrations in the PK Landfill sumps (PK-PL6 and PK-PL6A) and manholes (MH GW-4 and MH GW-5). No VOCs were detected at concentrations above the respective PRGs in the samples collected from the PK Landfill sumps and manholes during 2025.

Four wells (PK-11G, PK-14G, PK-17B, and PK-19B) were analyzed for selected metals (beryllium, cadmium, chromium, manganese, and nickel). If detected, these metals were present at levels typical for these wells.

4.1.3 Quadrant I Groundwater Investigative (5-Unit) Area

Nineteen wells that routinely monitor the Quadrant I Groundwater Investigative (5-Unit) Area were sampled during the first and/or third quarters of CY 2025. Samples were analyzed for the parameters listed in Tables 1 and 6. Appendix A provides the analytical data tables for this area. Figure 3 shows the groundwater monitoring wells at this area.

The *U.S. DOE Portsmouth Quadrant I Decision Document* (Ohio EPA 2001) identifies the COCs and PRGs for the Quadrant I Groundwater Investigative (5-Unit) Area, which include TCE, other VOCs, and manganese. Table 8 lists these COCs and the associated PRGs that are used to evaluate the groundwater monitoring results for the Quadrant I Groundwater Investigative (5-Unit) Area.

TCE is the primary COC detected in groundwater at the Quadrant I Groundwater Investigative (5-Unit) Area. The following table provides the concentrations of TCE detected in the plume wells between the first quarter of 2020 and the third quarter of 2025.

TCE concentrations (in µg/L) in Quadrant I Groundwater Investigative (5-Unit) Area plume wells, first quarter CY 2020 – third quarter CY 2025

Sampling event[a,b]	X230K-14G	X230K-15G	X231B-37G	X622-PZ01G	X622-PZ02G	X622-PZ03G
Wells south of excavation area						
3Q-2025	3.52	1.18	**10.9**	1.17	**130**	**44.2**
1Q-2025	ns	ns	ns	ns	ns	ns
3Q-2024	4.39	1.11	**12.1**	ns	ns	ns
1Q-2024	ns	ns	ns	ns	ns	ns
3Q-2023	**5.14**	0.602UJ	**8.78**	0.348J	**174**	**67.4**
1Q-2023	ns	ns	ns	ns	ns	ns
3Q-2022	4.75	1.81	**8.06**	ns	ns	ns
1Q-2022	ns	ns	ns	ns	ns	ns
3Q-2021	4.58	2.38	**5.57**	2.15	**182**	**84.4**
1Q-2021	ns	ns	ns	ns	ns	ns
3Q-2020	4.5	1.8	**6.5**	ns	ns	ns
1Q-2020	ns	ns	ns	ns	ns	ns

Sampling event[a,b]	X231B-11G	X231B-12G	X231B-15G	X231B-23G
Wells south of excavation area				
3Q-2025	ns	1.89	2.1	4.59
1Q-2025	0.43J	ns	ns	ns
3Q-2024	ns	4.11	3.01	2.47
1Q-2024	ns	ns	ns	ns
3Q-2023	ns	0.719J	2.42	2.68
1Q-2023	0.76J	ns	ns	ns
3Q-2022	ns	1.56	0.676J	1.06
1Q-2022	ns	ns	ns	ns
3Q-2021	ns	1.85	0.575J	0.16U
1Q-2021	0.744J	ns	ns	ns
3Q-2020	ns	2.3	0.4J	1.4
1Q-2020	ns	ns	ns	ns

Sampling event[a,b]	X231B-07G	X749A-09G	X231B-29G	X231B-36G	X710-01G
Wells in the northern portion of monitoring area					
3Q-2025	ns	0.72J	ns	**840**	ns
1Q-2025	**115**	ns	**463**	ns	**17.2**
3Q-2024	ns	1.79	ns	**852D**	ns
1Q-2024	ns	ns	ns	ns	ns
3Q-2023	ns	2.78	ns	**990D**	ns
1Q-2023	**34.3**	ns	**419D**	ns	**15.5**
3Q-2022	ns	0.3U	ns	**342D**	ns
1Q-2022	ns	ns	ns	ns	ns
3Q-2021	ns	0.16U	ns	**643D**	ns
1Q-2021	**66.8**	ns	**91.6**	ns	**15.7**
3Q-2020	ns	0.16U	ns	**1100D**	ns
1Q-2020	ns	ns	ns	ns	ns

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
[b]Results in bold type are at or above the PRG.
D – The reported value is from a dilution. J – estimated. U – undetected. ns – not sampled.

Figure 23 shows the Gallia groundwater TCE plume in this area. The groundwater plume is currently divided into northern and southern portions by the ongoing 5-Unit Excavation Project. The middle portion of the plume is not sampled because groundwater monitoring wells have been removed due to the excavation project. Water from the excavation area (precipitation and groundwater) is collected within the lowest areas of the excavation and removed for treatment. Samples of the water are collected and analyzed for TCE. In 2025, TCE was detected in only three of 15 samples at a maximum concentration of 1.18 µg/L.

Concentrations of TCE detected in monitoring wells in the northern portion of the monitoring area have varied over the last several years, which is most likely due to D&D and excavation activities in the area that affect groundwater infiltration and groundwater removal from the area. Ten of the 15 groundwater extraction wells that were part of the Quadrant I Groundwater Investigative (5-Unit) Area were removed in 2021-2022 for the X-231B and 5-Unit excavation projects.

Other VOCs are also identified as COCs for the Quadrant I Groundwater Investigative (5-Unit) Area in the *U.S. DOE Portsmouth Quadrant I Decision Document* (Ohio EPA 2001). Table 8 lists the COCs and PRGs for the Quadrant I Groundwater Investigative (5-Unit) Area. 1,1-Dichloroethene was the only other VOC that was detected at concentrations equal to or above the PRG (7 µg/L) in the Quadrant I Groundwater Investigative (5-Unit) Area. 1,1-Dichloroethene was detected in well X622-PZ02G at 19.6 µg/L.

4.1.4 X-749A Classified Materials Disposal Facility

Ten wells at the X-749A Classified Materials Disposal Facility (also called the X-749A Landfill) were sampled during the second and fourth quarters of CY 2025. Figure 3 shows the groundwater monitoring wells for this area, and Appendix A provides the analytical data. Samples were analyzed for the parameters listed in Tables 1 and 6.

The X-749A Landfill is in post-closure monitoring under solid waste regulations as described in the 1999 and 2011 DFF&Os on Integration. Therefore, data for the X-749A Landfill are not assessed by comparisons to PRGs or FRLs, but by the statistical evaluations described in this section.

Under the detection monitoring program for the X-749A Landfill, concentrations of selected parameters in downgradient Gallia wells are evaluated to monitor potential impacts to groundwater and trends in concentrations of these selected parameters (alkalinity, ammonia, calcium, chloride, iron, nitrate/nitrite, potassium, sodium, and sulfate). The downgradient wells for the X-749A Landfill in 2025 were X749A-03G, X749A-17G, X749A-18G, and X749A-19G.

A statistical evaluation was completed for each well (X749A-03G, X749A-17G, X749A-18G, and X749A-19G) for alkalinity, ammonia, calcium, chloride, iron, nitrate/nitrite, potassium, sodium, and sulfate. Intra-well Shewhart and cumulative summation (CUSUM) control limits were calculated using historical baseline data for each well. The Shewhart control limit is sensitive to rapid increases in the concentrations of indicator parameters; whereas the CUSUM control chart limit is sensitive to gradual increases in indicator parameters. Ohio EPA is notified when the Shewhart control limit for any of the indicator parameters is exceeded at any of the downgradient Gallia wells in two consecutive semiannual sampling events. Exceedances of the CUSUM control limits do not require Ohio EPA notification.

None of the control limits were exceeded in the X-749A downgradient wells in 2025. Appendix F provides a summary of the statistical evaluations completed for the X-749A Landfill in 2025.

The X-749A wells on the west side of the landfill also define the eastern edge of the Quadrant I Groundwater Investigative (5-Unit) Area groundwater plume. In the second quarter, samples from the

X-749A wells were analyzed for VOCs. TCE was detected in wells X749A-12G (4.13 µg/L) and X749A-19G (1.77 µg/L). These detections are less than the definition of the Quadrant I Groundwater Investigative (5-Unit) Area plume perimeter (5 µg/L).

In the second quarter, samples from X-749A wells were analyzed for antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, manganese, magnesium, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc. If detected, metals were present at concentrations typical for these wells.

Samples collected from each of the wells in the second quarter were also analyzed for technetium-99, uranium, and isotopic uranium (uranium-233/234, uranium-235/236, and uranium-238). Technetium-99 was detected at 7.72 pCi/L in well X749A-16G. Technetium-99 was not detected in any of the other X-749A monitoring wells. Uranium and uranium isotopes, if detected, were present at low levels typical for the wells in this area and below the drinking water standard (30 µg/L for uranium).

4.2 QUADRANT II

In Quadrant II, groundwater is monitored at three areas: Quadrant II Groundwater Investigative (7-Unit) Area, X-701B Former Holding Pond, and X-633 Former Recirculating Cooling Water Complex.

4.2.1 Quadrant II Groundwater Investigative (7-Unit) Area

Twenty-four wells that are part of the monitoring program for the Quadrant II Groundwater Investigative (7-Unit) Area were sampled in CY 2025. Two wells near the X-333 Process Building (X705-04G and X705-06G) were not sampled because the wells have been removed for D&D of the X-333 Process Building. Samples were analyzed for parameters listed in Tables 2 and 6. Figure 4 shows the monitoring wells at this area, and Appendix B provides the analytical data for this area.

The Quadrant II Groundwater Investigative (7-Unit) Area is a deferred unit. Results are compared to the FRLs for deferred units provided in the Deferred Units Decision Document (Ohio EPA 2023) (see Table 9).

TCE is the primary COC detected in groundwater at the Quadrant II Groundwater Investigative (7-Unit) Area. The following table provides the concentrations of TCE detected in the wells that are part of the groundwater plume between the first quarter of 2020 and the third quarter of 2025. Wells in which TCE has never been detected or has been detected only at concentrations below the FRL are not included in the table.

Figure 24 shows the Gallia groundwater TCE plume for this area. Groundwater in the western and northwestern portion of the monitoring area, beneath and adjacent to the X-333 and X-330 Process Buildings, was investigated as part of the Deferred Units RFI. Figure 24 includes the results for TCE at the sampling locations that were part of this investigation. These results have expanded the Gallia groundwater plume in the western and northwestern portion of the monitoring area. Analytical data for these sampling locations are provided in the Deferred Units RFI/CMS Report (DOE 2021b).

TCE concentrations (in µg/L) in Quadrant II Groundwater Investigative (7-Unit) Area plume wells, first quarter CY 2020 – third quarter CY 2025

Sampling event[a,b]	X700-02G	X700-04G	X700-05G	X700-06G	X701-26G	X701-27G	X701-45G
3Q-2025	ns	ns	ns	ns	0.44J	**13.6**	ns
1Q-2025	**2900**	**217**	**65,800**	**429,000J**	1.27	**14.2**	**39.4**
3Q-2024	ns	ns	ns	ns	2.17	**20**	ns
1Q-2024	**3200D**	**408D**	**68,500D**	**624,000DJ**	0.456J	**13**	ns
3Q-2023	ns	ns	ns	ns	2.07UJ	**20.2UJ**	ns
1Q-2023	**4430DJ**	**630D**	**198,000D**	**303,000**	2.23	**14.7**	**33.8J**
3Q-2022	ns	ns	ns	ns	0.58J	**20.5**	ns
1Q-2022	**3690D**	**501D**	**95,400D**	**479,000D**	0.742J	**13.5**	ns
3Q-2021	ns	ns	ns	ns	0.567J	**24.6**	ns
1Q-2021	**4870DJ**	**674D**	**82,700D**	**854,000D**	0.764J	**21.9**	**24.9**
3Q-2020	ns	ns	ns	ns	0.72J	**17**	ns
1Q-2020	**4100DJ**	**320D**	**78,000D**	**970,000D**	0.43J	**17**	ns

Sampling event[a,b]	X701-68G	X701-69G	X701-70G	X701-117GA	X705-01GA	X705-02G	X705-03G
3Q-2025	ns	ns	ns	ns	ns	ns	ns
1Q-2025	**751**	**614**	**4080**	**3070**	**14.4**	**5.13**	**34.9**
3Q-2024	ns	ns	ns	ns	ns	ns	ns
1Q-2024	ns	**484D**	ns	ns	ns	**5.94**	**28.1**
3Q-2023	ns	ns	ns	ns	**21.4**	ns	ns
1Q-2023	**777D**	**342D**	**2250DJ**	**3360D**	ns	**8.63J**	**14.5J**
3Q-2022	ns	ns	ns	ns	ns	ns	ns
1Q-2022	ns	**560D**	ns	ns	ns	**9.75**	**7.69**
3Q-2021	ns	ns	ns	ns	ns	ns	ns
1Q-2021	**600D**	**483D**	**3700D**	**3590D**	**25.2J**	**11.1**	**14**
3Q-2020	ns	ns	ns	ns	ns	ns	ns
1Q-2020	ns	**570D**	ns	ns	ns	**15**	**15**

Sampling event[a,b]	X705-04G	X705-06G	X705-07G	X720-01G	X720-08G	X720-09G
3Q-2025	ns-r	ns-r	ns	ns	ns	ns
1Q-2025	ns-r	ns-r	**5.69**	**12,400DJ**	**1930D**	**345,000D**
3Q-2024	ns	ns	ns	ns	ns	ns
1Q-2024	**18.6**	ns	ns	**17,000DJ**	**2440D**	**255,000D**
3Q-2023	ns	ns	ns	ns	ns	ns
1Q-2023	**9.66**	**23.9**	4.79J	**12,200DJ**	**3020D**	**517,000D**
3Q-2022	ns	ns	ns	ns	ns	ns
1Q-2022	**7.84**	ns	ns	**13,200DJ**	**2940DJ**	**351,000DJ**
3Q-2021	ns	ns	ns	ns	ns	ns
1Q-2021	**15.3**	**28.1**	4.66	**10,900DJ**	**3890D**	**446,000D**
3Q-2020	ns	ns	ns	ns	ns	ns
1Q-2020	**18**	ns	ns	**7500DJ**	**5000D**	**460,000D**

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
[b]Results in bold type are at or above the FRL.
D – The reported value is from a dilution. J – estimated. U – undetected. ns – not sampled. ns-r – not sampled because well has been removed.

Two wells on the north side of the X-333 Process Building, X333-04G and X333-06G, were added to the monitoring program for the Quadrant II Groundwater Investigative (7-Unit) Area in 2024. These wells monitor groundwater on the north side of the X-333 Process Building, but are not part of the groundwater plume in the Quadrant II Groundwater Investigative (7-Unit) Area.

TCE was detected in well X333-04G at 28.2 µg/L, which has increased from the concentration of TCE detected in 2024 (17.3 µg/L) and during the RFI in 2015 (9.64 µg/L, DOE 2021b). TCE was detected at 0.412 µg/L in the sample collected from well X333-06G, which has decreased from the concentration of TCE detected in 2024 (approximately 4 µg/L) and during the RFI in 2015 (14.9 µg/L, DOE 2021b).

Concentrations of TCE detected in the Quadrant II Groundwater Investigative (7-Unit) Area plume were generally stable or decreasing in 2025. However, TCE increased in well X705-03G (34.9 µg/L), which monitors the southwestern portion of the plume. TCE is also increasing in well X701-45G, which monitors the southeastern edge of the plume.

Other VOCs are also detected in the Quadrant II Groundwater Investigative (7-Unit) Area. VOCs detected above their respective FRLs (see Table 9) are listed below:

- 1,1-Dichloroethene (detected in nine wells at concentrations ranging from 10.9 to 6440 µg/L, which exceed the FRL of 7 µg/L)
- Carbon tetrachloride (detected in well X700-06G at 60.4 µg/L, which exceeds the FRL of 5 µg/L)
- Chloroform (detected in six wells at concentrations ranging from 1.82 to 25.9 µg/L, which exceed the FRL of 1.1 µg/L)
- *Cis*-1,2-dichloroethene (detected in ten wells at concentrations ranging from 22.4 to 28,700 µg/L, which exceed the FRL of 16.3 µg/L)
- *Trans*-1,2-dichloroethene (detected in well X700-05G at 51.9 µg/L, which exceeds the FRL of 16.3 µg/L)
- Tetrachloroethene (detected in three wells at concentrations ranging from7.71 to 30.5 µg/L, which exceed the FRL of 5 µg/L)
- Vinyl chloride (detected in five wells at concentrations ranging from 29.2 to 950 µg/L, which exceed the FRL of 2 µg/L).

Concentrations of *cis*-1,2-dichloroethene and vinyl chloride were high in some of the wells that monitor the Quadrant II Groundwater Investigative (7-Unit) Area in 2025. Higher concentrations of these VOCs are expected since these VOCs are breakdown products resulting from implementation of the 2011-2012 IRM (see Section 1.3.5).

Samples from five wells (X700-02G, X701-117GA, X705-01GA, X705-02G, and X705-07G) were analyzed for selected metals (beryllium, cadmium, chromium, hexavalent chromium, cobalt, manganese, and nickel). Beryllium and hexavalent chromium was not detected in any of the wells. The following metals were detected above the respective FRLs:

- Chromium was detected at 182 µg/L in well X705-07G, which exceeds the FRL (100 µg/L).

- Cobalt was detected at 1.04 µg/L in well X701-117GA and 5.73 µg/L in well X705-07G, which exceed the FRL (0.60 µg/L).

- Manganese was detected in four wells (X700-02G, X701-117GA, X705-02G, and X705-07G) at concentrations ranging from 45.7 to 449 µg/L, which exceed the FRL (43.3 µg/L).

- Nickel was detected at 114 µg/L in well X701-117GA and 136 µg/L in well X705-07G, which exceed the FRL (39.2 µg/L).

Samples from 14 wells were analyzed for technetium-99, uranium, and uranium isotopes (uranium-233/234, uranium-235/236, and uranium-238). Additionally, the sample collected from well X705-01GA was analyzed for selected transuranics (americium-241, neptunium-237, plutonium-238, and plutonium-239/240).

No transuranics were detected in the sample collected from well X705-01GA. Technetium-99 was detected in nine wells at activities between 7.63 and 150 pCi/L (X720-08G), which are less than the Ohio EPA drinking water standard for technetium-99 (900 pCi/L, based on a 4 mrem/year dose from beta emitters).

Detections of uranium in the Quadrant II Groundwater Investigative (7-Unit) Area wells were below the drinking water standard (30 µg/L for uranium).

4.2.2 X-701B Former Holding Pond

Sixty-one wells that are part of the routine monitoring program for the X-701B Former Holding Pond area were sampled in CY 2025. Well X701-BW1G, which is outside of the plume in the northwest portion of the monitoring area, was not sampled in 2025 due to maintenance issues in the area of the well. Samples were analyzed for VOCs, metals, radionuclides, and/or other parameters as detailed in Tables 2 and 6. Figure 5 shows the monitoring wells for the X-701B Former Holding Pond area, and Appendix B provides the analytical data.

The X-701B Decision Document (Ohio EPA 2003) identifies the COCs and PRGs for the X-701B Former Holding Pond area, which include TCE, other VOCs, semivolatile organic compounds, and selected metals. Table 8 lists these COCs and the associated PRGs that are used to evaluate the groundwater monitoring results for the X-701B Former Holding Pond area.

TCE is the primary COC detected in groundwater at the X-701B Former Holding Pond area. The following table provides the concentrations of TCE detected in the X-701B Former Holding Pond plume wells between the first quarter of 2020 and the third quarter of 2025. Wells in which TCE is not routinely detected are not included in the table. Figure 25 shows the Gallia groundwater TCE plume in this area.

Fluctuating concentrations of TCE in the monitoring wells within the X-701B plume may be due to the operational issues at the X-237 Groundwater Collection System that were addressed in 2023. With the approval of Ohio EPA, DOE replaced the vertical casing, screen, and pump in the north pumping well (X237-NPW) and the pump in the south pumping well (X237-SPW) in January 2023. With the maintenance for this system completed, TCE concentrations detected in some of the monitoring wells have changed in 2024-2025 when compared to data collected before this maintenance was completed.

TCE concentrations (in µg/L) in X-701B Former Holding Pond Area plume wells, first quarter CY 2020 – third quarter CY 2025

Sampling event[a,b]	X701-02G	X701-06G	X701-42G	X701-66G	X701-130G	X701-BW2G	X701-BW3G
Wells west or north of IRM area							
3Q-2025	**8.65**	**130**	**2210J**	**456**	**120,000J**	**10,100J**	**80.9J**
1Q-2025	**9.12**	**93.6**	ns	**249J**	ns	ns	ns
3Q-2024	**8.81**	**65.8J**	**1240D**	**785DJ**	**143,000D**	**41,000D**	**93.5**
1Q-2024	**9.71**	**51J**	ns	**476D**	ns	ns	ns
3Q-2023	**11.5**	**67.3**	**1070DJ**	**1060**	**125,000D**	**43,300D**	**150J**
1Q-2023	**13.2J**	**160D**	ns	**395DJ**	ns	ns	ns
3Q-2022	**12.6**	**117J**	**5000D**	**766DJ**	**46,100DJ**	**37,100D**	**204DJ**
1Q-2022	**14.5**	**236D**	ns	**677D**	ns	ns	ns
3Q-2021	**10.6**	**173D**	**3990D**	**671D**	**54,600D**	**22,200D**	**143**
1Q-2021	**14.9**	**206D**	ns	**870D**	ns	ns	ns
3Q-2020	**12.5Q**	**161DQ**	**3600D**	**1300DJ**	**73,000D**	**14,300DQ**	**161DQ**
1Q-2020	**17**	**230DJ**	ns	**990D**	ns	ns	ns

Sampling event[a,b]	X701-TC01G	X701-TC03G	X701-TC05G	X701-TC10G	X701-TC17G
Treatment cell wells (within IRM area)					
3Q-2025	**8400J**	**17,300J**	**6490J**	**5720J**	**5580J**
1Q-2025	**6780J**	**14,300J**	**5270**	**4490**	**8220**
3Q-2024	**5840D**	**10,300D**	**4500D**	**5400D**	**5570D**
1Q-2024	**6470DJ**	**31,600D**	**6500D**	**5820DJ**	**14,700DJ**
3Q-2023	**6680D**	**16,100D**	**5010DJ**	**5910D**	**5050DJ**
1Q-2023	**3660D**	**25,300DJ**	**5810D**	**5980D**	**10,800DJ**
3Q-2022	**11,500D**	**15,700D**	**9130D**	**5770DJ**	**4670D**
1Q-2022	**7250D**	**17,000D**	**6520D**	**6060D**	**16,100D**
3Q-2021	**8450D**	**19,800D**	**8050D**	**5890D**	**7520D**
1Q-2021	**8000D**	**18,000D**	**6410D**	**2200BD**	**4740BDQJ**
3Q-2020	**8400DQ**	**19,000D**	**6800D**	**3720BDQJ**	**8310BDQ**
1Q-2020	**8500DJ**	**22,000D**	**9700D**	**8000DJ**	**15,000D**

Sampling event[a,b]	X701-TC22G	X701-TC28G	X701-TC48G	X701-TC54G	X701-TC61G	X701-TC67G
Treatment cell wells (within IRM area)						
3Q-2025	**26,600J**	**66,400J**	**4400**	**45,100J**	**61,500J**	**4710J**
1Q-2025	**17,500**	**58,200J**	**9550**	**51,600**	**60,400**	**5720**
3Q-2024	**41,700D**	**71,700D**	**6130D**	**71,800DJ**	**89,000D**	**4960D**
1Q-2024	**61,600D**	**84,500D**	**7190D**	**45,800D**	**71,000D**	**4360DJ**
3Q-2023	**44,500D**	**98,200J**	**3530D**	**33,000D**	**50,000DJ**	**4740D**
1Q-2023	**58,300DJ**	**95,400D**	**7450D**	**34,300DJ**	**67,500DJ**	**7750D**
3Q-2022	**63,900D**	**69,500D**	**4090D**	**64,500DJ**	**68,400D**	**5470D**
1Q-2022	**77,100D**	**106,000D**	**9270D**	**32,900DJ**	**71,600DJ**	**5870D**
3Q-2021	**63,000D**	**85,400DJ**	**5080D**	**40,400D**	**77,500D**	**5700D**
1Q-2021	**55,900BD**	**109,000BD**	**3230BD**	**50,700D**	**74,000BD**	**6670D**
3Q-2020	**34,500DQ**	**18,600BDQ**	**7450BDQ**	**48,000D**	**51,500DQ**	**6130DQ**
1Q-2020	**62,000D**	**150,000D**	**6200D**	**60,000DJ**	**120,000D**	**7300D**

TCE concentrations (in µg/L) in X-701B Former Holding Pond Area plume wells, first quarter CY 2020 – third quarter CY 2025 (continued)

Sampling event[a,b]	X701-77G	X701-79G	X701-23G	X701-EW121G	X701-EW122G	X701-21G
			Mid-plume wells (south of IRM or downgradient from IRM)			
3Q-2025	**1210J**	**507J**	**13.4**	**17,000J**	**45,500J**	**6900J**
1Q-2025	ns	ns	ns	**18,200**	**39,100J**	**4880**
3Q-2024	**1730D**	**319D**	**14.6**	**18,100D**	**60,300D**	**6860D**
1Q-2024	ns	ns	ns	**28,800DJ**	**66,100D**	**6220D**
3Q-2023	**2630D**	**185DJ**	**13.3**	**15,500D**	**50,900D**	**7630D**
1Q-2023	ns	ns	ns	**18,300D**	**54,400D**	**7110D**
3Q-2022	**2210D**	**264D**	**13.2**	**14,400D**	**63,800D**	**9620D**
1Q-2022	ns	ns	ns	**23,900DJ**	**68,100D**	**10,500D**
3Q-2021	**1910D**	**419D**	**15.2**	**11,300D**	**59,700DJ**	**8350D**
1Q-2021	ns	ns	ns	**24,600D**	**58,400D**	**5480D**
3Q-2020	**1800DJ**	**430D**	**10.8Q**	**14,500DQ**	**47,600DQ**	**13,600DQ**
1Q-2020	ns	ns	ns	**35,000D**	**58,000D**	**5700D**

Sampling event[a,b]	X230J7-01GA	X230J7-02GA	X230J7-03GA	X230J7-04GA	X701-127G	X701-128G	X701-20G
				Mid-plume wells (downgradient from IRM)			
3Q-2025	**1740DJ**	**5990D**	**8800D**	0.271J	**15,700J**	**5380J**	**24,600**
1Q-2025	**1300DJ**	**7740D**	**15,800DJ**	ns	**13,200**	**6970J**	**40,000**
3Q-2024	**2350D**	**7990D**	**33,300D**	**6.1**	**24,000D**	**6110DJ**	**40,900D**
1Q-2024	**867D**	**8520D**	**12,800DJ**	ns	**18,600D**	**7380D**	**43,100D**
3Q-2023	**1550D**	**9720D[c]**	**12,800D**	0.3U	**19,200D**	**4970DJ**	**68,000DJ**
1Q-2023	**829D**	**8950D**	**12,100DJ**	ns	**24,800D**	**131J**	**46,300D**
3Q-2022	**928D**	**7920DJ**	**11,900D**	0.309J	**16,800D**	**4620D**	**50,500D**
1Q-2022	**531DJ**	**6770DJ**	**6250DJ**	ns	**26,900D**	**10,700D**	**41,600D**
3Q-2021	**177J**	**6140D**	**6980D**	3.39	**21,300D**	**6080D**	**59,300DJ**
1Q-2021	**419D**	**5550D**	**4960D**	ns	**17,000D**	**8070D**	**44,700D**
3Q-2020	**189DQ**	**2940DQ**	**3160DQ**	0.638QU	**11,500DQ**	**3690DQJ**	**14,700DQJ**
1Q-2020	**370D**	**810D**	**2500DJ**	0.16U	**24,000D**	**11,000D**	**60,000DJ**

Sampling event[a,b]	X701-19G	X701-15G	X701-16G	X701-24G	X701-IRMPZ03G	X701-IRMPZ06G	X701-IRMPZ08G
				Mid-plume or eastern plume wells (X-237 Groundwater Collection System and Little Beaver Creek)			
3Q-2025	3.29	3.37	0.333U	**1290**	**704**	**15.1**	**469J**
1Q-2025	3.55	1.53	0.333U	**1240**	**385**	**21.1**	**452**
3Q-2024	3.84	**5.62DJ**	0.3U	**4410D**	**1010D**	2.97D	**638D**
1Q-2024	**5.51**	1.7	0.3U	**1050D**	**430D**	**15.6**	**147D**
3Q-2023	4.44	4.98	0.3U	**4580D**	**850D**	1.2U	**569D**
1Q-2023	**5.25**	4.44DJ	2.04	**569D**	**547D**	1.19DJ	**1340D**
3Q-2022	**6.27**	**5.27**	0.3U	**564D**	**256D**	0.81J	**1900D**
1Q-2022	**5.06**	1.6U	0.16U	**400D**	**581DJ**	0.324J	**1760D**
3Q-2021	**8.78J**	**80.6D**	0.16U	**495D**	**859D**	**9.21D**	**1760D**
1Q-2021	**9.43**	**4.51DJ**	0.16U	**491D**	**340D**	1.55	**1170D**
3Q-2020	**5.62Q**	**25Q**	0.638U	**348DQ**	**700D**	2.63Q	**817DQJ**
1Q-2020	2.7	4.3	0.16U	**780D**	**430D**	4.9	**2100D**

TCE concentrations (in µg/L) in X-701B Former Holding Pond Area plume wells, first quarter CY 2020 – third quarter CY 2025 (continued)

Sampling event[a,b]	X237-EPW	X237-WPW	X701-141G	X701-142G	X701-143G	X701-IRMPZ05G	X701-IRMPZ07G
Eastern plume wells (X-237 Groundwater Collection System and Little Beaver Creek)							
3Q-2025	**5230D**	**24,800D**	**52.2J**	**3330**	**136**	ns	ns
1Q-2025	ns	ns	ns	**2830**	**12**	**1030**	**28,100**
3Q-2024	**9400D**	**30,800D**	**59.3**	**3400D**	**5.55D**	ns	ns
1Q-2024	ns	ns	ns	**4050D**	**38.8**	**1080D**	**59,600D**
3Q-2023	**3870D**	**38,100D**	**42.3**	**3900D**	1.2U	ns	ns
1Q-2023	ns	ns	ns	**4130D**	2.43	1540D	**57,900D**
3Q-2022	**7430D**	**26,200DJ**	**59.6**	**4070DJ**	16.9UJ	ns	ns
1Q-2022	ns	ns	ns	**5970DJ**	3.02	**1540DJ**	**34,300D**
3Q-2021	**7210D**	**57,000D**	**79.9**	**4680D**	0.462DJ	ns	ns
1Q-2021	ns	ns	ns	**3180D**	0.738DJU	**1600DJ**	**39,500D**
3Q-2020	**2880DQ**	**11,200DQJ**	**77.1Q**	**3410DQ**	1.23QJU	ns	ns
1Q-2020	ns	ns	ns	**3500D**	4.5DJ	**1700D**	**52,000D**

Sampling event[a,b]	X701-01G	X701-30G	X744G-02G	X744G-03G
X-744G area wells				
3Q-2025	**381**	2.75	**32.9**	**6**
1Q-2025	**141**	2.68UJ	**33.8J**	**6.9UJ**
3Q-2024	**479D**	2.07	**37.6**	**7.38**
1Q-2024	**242D**	1.42	**38**	**7.35**
3Q-2023	**531D**	0.577J	**33**	**5.61**
1Q-2023	**276D**	0.429J	**27.6**	**9.32**
3Q-2022	**402D**	0.514J	**32**	**8.37**
1Q-2022	**240D**	0.782J	**35.4**	**9.29**
3Q-2021	**402D**	3.26	**33.6**	**9.03**
1Q-2021	**262D**	1.15	**32.6**	**12**
3Q-2020	**364D**	1.24	**30.3**	**10.7**
1Q-2020	**150**	1.8	**27**	**11**

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
[b]Results in bold type are at or above the PRG.
[c]Result from the fourth quarter of 2023. This well was resampled in the fourth quarter to confirm an elevated third quarter result (65,900 µg/L). The fourth quarter result was 9720 µg/L.
B – The analyte was detected in the laboratory blank sample. D – The reported value is from a dilution. J – estimated. Q – One or more quality control criteria failed. U – undetected. ns – not sampled.

Concentrations of TCE on the north edge of the X-701B plume at the X-230J7 Holding Pond (wells X230J7-01GA, X230J7-02GA, X230J7-03GA, and X230J7-04GA) stabilized or decreased in 2025. In 2020 through 2024, TCE concentrations had generally increased in these wells.

In 2025, TCE continued to be detected at concentrations above 100,000 µg/L in well X701-130G, which monitors the western end of the plume at the former east retention basin. TCE was detected at 120,000 µg/L, which is higher than the detections in 2019-2022 (46,100-73,000 µg/L). Historically, however, TCE was detected in this well at concentrations above 100,000 µg/L from 2014-2018 (DOE 2019).

TCE concentrations were stable in 2025 in three wells in the southern portion of the plume (X701-19G, X701-23G, and X701-79G). Although TCE was detected at 507 µg/L in well X701-79G in 2025, which increased compared to 2024 (319 µg/L), TCE was detected at concentrations over 400 µg/L in 2020 and

2021. TCE remained less than 5 µg/L in samples collected from well X701-19G, which monitors the southern edge of the plume. Well X701-19G was part of the groundwater plume in 2020-2022 with TCE detections between 5.06 and 9.43 µg/L.

The TCE concentrations in four wells west/south of the X-744G Building (X701-01G, X701-30G, X744G-02G, and X744G-03G) were similar to the TCE concentrations detected in 2024.

Other VOCs are also identified as COCs for the X-701B Former Holding Pond area in the X-701B Decision Document (Ohio EPA 2003). Table 8 lists the COCs and PRGs for the X-701B area. The other VOCs detected at or above their respective PRGs are:

- 1,1,2,2-Tetrachloroethane (detected in 22 wells at concentrations ranging from 1.22 to 116 µg/L, which exceed the PRG of 0.83 µg/L)
- 1,1,2-Trichloroethane (detected in 18 wells at concentrations ranging from 5.07 to 41.1 µg/L, which exceed the PRG of 5 µg/L)
- 1,1-Dichloroethene (detected in six wells at concentrations ranging from 7.74 to 46.3 µg/L, which exceed the PRG of 7 µg/L)
- Carbon tetrachloride (detected in three wells at concentrations ranging from 5.58 to 8.36 µg/L, which exceed the PRG of 5 µg/L)
- *Cis*-1,2-dichloroethene (detected in 10 wells at concentrations ranging from 996 to 5000 µg/L, which exceed the PRG of 900 µg/L)
- Tetrachloroethene (detected in 21 wells at concentrations ranging from 5.86 to 256 µg/L, which exceed the PRG of 5 µg/L)
- Vinyl chloride (detected in 18 wells at concentrations ranging from 2.63 to 410 µg/L, which exceed the PRG of 2 µg/L).

Wells X701-20G and X701-127G provide metals monitoring (beryllium, cadmium, chromium, manganese, and nickel) in the center of the plume downgradient from the IRM treatment area and the area in which oxidant was injected from 2006 through 2008. Nickel was detected at concentrations ranging from 101 to 116 µg/L in the samples collected from well X701-20G. Nickel was detected at 712 and 476 µg/L in the samples collected from well X701-127G. The concentrations of nickel detected in these wells are above the PRG (100 µg/L), but are similar to 2024 (DOE 2025a). Nickel is typically detected above the PRG in wells X701-20G and X701-127G.

Concentrations of metals present in groundwater in the X-701B area have been affected by the oxidant used in the X-701B IRM and the oxidant injections conducted in 2006 through 2008 that were part of the X-701B groundwater remedy. The oxidant, which affects the oxidation/reduction potential and pH of the soil and/or groundwater, causes metals in soil to be mobilized into the groundwater. It is expected that the metals will move downgradient with groundwater flow for a short distance and then be re-adsorbed into the soil matrix as the geochemistry of the soil and groundwater returns to ambient conditions.

Wells X701-01G, X701-30G, X744G-01G, X744G-02G, and X744G-03G monitor metals (beryllium, cadmium, chromium, manganese, and nickel) at the X-744G Bulk Storage Building in the southwestern portion of the X-701B monitoring area. Cadmium and nickel are typically detected above the PRGs (6.5 and 100 µg/L, respectively) in wells X701-01G, X744G-01G, and X744G-02G. Concentrations of these metals are either stable or decreasing in wells X701-01G, X744G-01G, and X744G-02G.

Concentrations of cadmium and nickel detected in these wells between the first quarter of 2020 and the third quarter of 2025 are summarized in the following table. Figure 26 shows the well locations and concentrations of cadmium and nickel detected at the X-744G wells in the first and third quarters of 2025.

Beryllium, chromium, and manganese were not detected above the PRG in any of the X-744G wells (X701-01G, X701-30G, X744G-01G, X744G-02G, and X744G-03G).

Concentrations of cadmium and nickel (in µg/L) at X-744G wells (part of the X-701B monitoring area), first quarter CY 2020 – third quarter CY 2025

Sampling event[a]	X701-01G		X701-30G		X744G-01G	
	Cd (6.5)[b]	Ni (100)	Cd (6.5)	Ni (100)	Cd (6.5)	Ni (100)
3Q-2025	**32**	**385**	0.545J	14.4	**61.2**	**191**
1Q-2025	**39.1**	**466**	0.474J	2.06	**61.7**	**189**
3Q-2024	**22.6**	**326**	0.402J	1.92J	**61.1**	**201**
1Q-2024	**36.5**	**449**	0.383J	1.61J	**59.3J**	**199J**
3Q-2023	**22.1**	**295**	0.289J	1.74J	**59.3**	**177J**
1Q-2023	**36.3**	**503J**	0.433J	2.13J	**60.4**	**208**
3Q-2022	**24.6**	**327**	0.508J	2.26	**55.5**	**185J**
1Q-2022	**37.4**	**532**	0.458J	3.22	**61.5**	**216**
3Q-2021	**27**	**377**	0.389J	2.46UJ	**55.2**	**197**
1Q-2021	**32.3**	**406**	0.353J	4.92	**61.5**	**206**
3Q-2020	**26**	**320**	0.32J	2.3	**56**	**180**
1Q-2020	**43**	**520**	0.79J	2.2	**58**	**190**

Sampling event[a]	X744G-02G		X744G-03G	
	Cd (6.5)[b]	Ni (100)	Cd (6.5)	Ni (100)
3Q-2025	**74.4**	**531**	0.989J	11.2
1Q-2025	**72.2**	**520**	1.27	13.6
3Q-2024	**72.7**	**571**	1.28	11
1Q-2024	**74.2**	**555**	1.39	13.6
3Q-2023	**84.8**	**645J**	1.05	9.21
1Q-2023	**119J**	**945J**	1.53	13.3
3Q-2022	**113**	**909**	1.14	11.5
1Q-2022	**104**	**853**	2.28	25
3Q-2021	**92.8J**	**786J**	0.799J	11.2
1Q-2021	**106**	**993D**	1.86	25
3Q-2020	**96**	**780**	0.89J	8.4
1Q-2020	**110**	**900**	1.4	19

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
[b]The PRG for each parameter is provided in parentheses. Results in bold type are at or above the PRG.
D – The reported value is from a dilution. J – estimated. U – undetected.

Sulfate is monitored at the X-701B area to determine the effect of the sodium persulfate used as an oxidant to treat soil during the 2009-2011 X-701B IRM. Three wells immediately downgradient from the IRM area (X701-21G, X701-EW121G, and X701-EW122G) were monitored quarterly in 2025. The average concentrations of sulfate detected in wells X701-21G and X701-EW122G decreased in 2025. The average concentration of sulfate in well X701-EW121 in 2025 increased compared to the average concentrations in the previous five years. The following table lists the concentrations of sulfate detected in these downgradient X-701B wells in 2020 through 2025.

Concentrations of sulfate (in mg/L) detected in selected downgradient X-701B wells, 2020 – 2025

Sampling event[a]	X701-21G	X701-EW121G	X701-EW122G	X701-20G	X701-127G
2025 average	*628*	*644*	*1890*	*1175*	*507*
4Q-2025	611	687	1970	ns	ns
3Q-2025	735	656	2170	1140	603
2Q-2025	607	620	1780	ns	ns
1Q-2025	557	613	1640	1210	410
2024 average	*661*	*553*	*2065*	*1220*	*351*
2023 average	*808*	*516*	*2350*	*900*	*335*
2022 average	*994*	*539*	*2510*	*915*	*339*
2021 average	*808*	*565*	*2240*	*779*	*312*
2020 average	*890*	*510*	*2200*	*735*	*385*

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
ns – not sampled.

Sulfate was analyzed in first and third quarter samples collected from seven wells downgradient of the IRM area (X230J7-01GA, X230J7-02GA, X230J7-03GA, X701-20G, X701-24G, X701-127G, and X701-128G). Sulfate concentrations in wells X701-20G and X701-127G have increased since the end of the IRM. Typical concentrations of sulfate in wells X701-20G and X701-127G prior to being affected by the IRM were approximately 200 mg/L and 100 mg/L, respectively. The average sulfate concentration in well X701-20G decreased in 2025 compared to 2024. The average concentration of sulfate in well X701-127G increased in 2025. The results for nickel in wells X701-20G and X701-127G (discussed previously in this section) indicate that groundwater affected by oxidant has moved into the area monitored by these wells.

Sulfate concentrations in three wells (X230J7-01GA, X701-24G, and X701-128G) were similar to the sulfate concentrations detected prior to the IRM (DOE 2010a) and in 2020-2024 (DOE 2021a, DOE 2022a, DOE 2023a, DOE 2024a, DOE 2025a), which indicates that the X-701B IRM has not affected groundwater quality in these downgradient wells to date. The sulfate concentrations in well X230J7-02GA increased in 2025 to 726 and 769 mg/L. Concentrations of sulfate in well X230J7-02GA in 2023 were 694 and 716 mg/L and concentrations prior to 2021 ranged from 200 to 280 mg/L. Sulfate is also increasing in well X230J7-03GA. Sulfate increased to 800 and 868 mg/L in 2025; sulfate was detected at 557 and 811 mg/L in 2024 and 210-391 mg/L in 2020-2022.

Samples collected from 11 wells within the IRM area (wells with "TC" in the well name) were analyzed for sulfate in the first and third quarters. The maximum concentration of sulfate detected in these wells was 5520 mg/L (X701-TC48G). Samples from five wells upgradient or sidegradient to the IRM area (X701-02G, X701-06G, X701-66G, X701-BW2G, and X701-BW4G) were analyzed for sulfate in the first and/or third quarter. Concentrations of sulfate in these wells ranged from 104 to 226 mg/L.

Samples from 18 wells were analyzed for selected transuranics (americium-241, neptunium-237, plutonium-238, and plutonium-239/240) in the first and/or third quarter of 2025. No transuranics were detected in the X-701B wells.

Samples from 47 wells were analyzed for technetium-99, uranium, and uranium isotopes (uranium-233/234, uranium-235/236, and uranium-238). Technetium-99 was detected in 30 wells at activities less than the Ohio EPA drinking water standard for technetium-99 (900 pCi/L, based on a 4 mrem/year dose from beta emitters). The sample from well X701-BW2G contained the highest concentration of technetium-99 in the monitoring area at 585 pCi/L. Well X701-BW2G is located immediately south of the former X-701B Holding Pond. Technetium-99 has decreased in well X701-BW2G when compared to data collected in 2021-2023, when technetium-99 was detected above the drinking water standard (DOE 2022a, DOE 2023a, DOE 2024a).

Uranium and uranium isotopes (uranium-233/234, uranium-235/236, and uranium-238) were detected at higher than typical levels in several of the wells within the IRM area (wells with "TC" in the well name) and one well immediately south of the former X-701B Holding Pond. Uranium was detected at concentrations above the Ohio EPA drinking water standard for uranium (30 µg/L) in four wells (X701-BW2G, X701-TC05G, X701-TC17G, and X701-TC48G). These detections ranged from 31.9 to 59 µg/L. The highest levels of uranium isotopes were detected in well X701-BW2G or X701-TC48G: uranium-233/234 at 48.4 pCi/L (X701-BW2G), uranium-235/236 at 2.73 pCi/L (X701-BW2G), and uranium-238 at 19.7 pCi/L (X701-TC48G).

4.2.3 X-633 Former Recirculating Cooling Water Complex

Samples were collected during the second and fourth quarters of CY 2025 from two wells at the X-633 Former Recirculating Cooling Water Complex, a deferred unit identified in the *Quadrant II Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 2001). Samples were analyzed for arsenic, chromium, and nickel. Results are compared to the FRLs for deferred units provided in the Deferred Units Decision Document (Ohio EPA 2023) (see Table 9).

Figure 27 shows the well locations and metal concentrations detected at the X-633 Former Recirculating Cooling Water Complex in 2025. Arsenic and nickel were added to the monitoring program in 2024. Appendix B provides a data summary table for the X-633 Former Recirculating Cooling Water Complex wells.

The following table summarizes concentrations of metals in the samples collected from the two wells in the IGWMP monitoring program from the second quarter of 2020 through the fourth quarter of 2025.

Concentrations of selected metals (in µg/L) detected at X-633 monitoring wells, second quarter CY 2020 – fourth quarter CY 2025

Sampling event[a]	X633-07G			X633-PZ04G		
	As (10)[b]	Cr (100)	Ni (39.2)	As (10)[b]	Cr (100)	Ni (39.2)
4Q-2025	2U	**149**	**86.1**	2.1J	27.9	1.11J
2Q-2025	2.02J	**752**	**131**	3.58J	27.8	1.89J
4Q-2024	2U	**236**	**202**	2U	**130**	0.743J
2Q-2024	na	**308J**	na	na	70.8	na
4Q-2023	na	**110**	na	na	**300**	na
2Q-2023	na	64	na	na	77.3	na
4Q-2022	na	66.8B	na	na	**118B**	na
2Q-2022	na	70.1J	na	na	54.4	na
4Q-2021	na	**162**	na	na	94.1	na
2Q-2021	na	83.7	na	na	50.3	na
4Q-2020	na	**355**	na	na	88.1	na
2Q-2020	na	93.3	na	na	56.5	na

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]The FRL for each parameter is provided in parentheses. Results in bold type are at or above the FRL.
B – The analyte was detected above one-half the reporting limit in an associated blank. J – estimated. na – the sample was not analyzed for this metal (analysis was added to the monitoring program beginning in the fourth quarter of 2024).

4.3 QUADRANT III

In Quadrant III, groundwater is monitored at four areas: X-616 Former Chromium Sludge Surface Impoundments, X-740 Former Waste Oil Handling Facility, X-530A Switchyard Complex, and X-744N, P, and Q Warehouses.

4.3.1 X-616 Former Chromium Sludge Surface Impoundments

Sixteen wells that routinely monitor the X-616 Former Chromium Sludge Surface Impoundments were sampled during CY 2025. In addition, four wells that are not routinely monitored were sampled in the second, third, and fourth quarters of 2025 to provide additional information about concentrations of TCE in the monitoring area. Samples from the wells were analyzed for VOCs and/or metals (see Tables 3 and 6). Appendix C provides analytical data tables for this area. Figure 7 shows the groundwater monitoring wells at this area.

The X-616 Former Chromium Sludge Surface Impoundments are a closed hazardous waste management unit in post-closure monitoring. Monitoring results are compared to the PRGs listed in Table 8 as provided in the *Quadrant III Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 1998a).

VOCs are routinely detected at low concentrations in wells X616-09G, X616-13G, X616-14G, X616-16G, and X616-20B, which are located on the western/downgradient side of the X-616 Former Chromium Sludge Surface Impoundments.

TCE has been slowly increasing in these X-616 monitoring wells over the past 25 years, with TCE detected above 5 µg/L in two Gallia wells (X616-09G and X616-13G) and one Berea well (X616-20B) for more than 10 years. Two years ago, in 2024, TCE increased to above 5 µg/L in two additional Gallia wells (X616-14G and X616-16G). These results indicated that a potential TCE plume in the Gallia groundwater may be present on the west side of the X-616 Former Chromium Sludge Surface

Impoundments. A groundwater plume is defined by at least three adjacent monitoring wells in the same geological formation (i.e., Gallia or Berea).

Additional sampling was completed in 2025 to further investigate the potential plume identified in 2024. Sampling frequencies were increased to quarterly from semiannual or annual in the five wells on the west side of the former surface impoundments in the area of the potential Gallia groundwater plume (X616-09G, X616-13G, X616-14G, X616-16G, and X616-20B), as well as one Gallia well southwest of the potential plume area (X616-25G).

The following table lists the TCE concentrations detected in these six X-616 wells from the first quarter of 2020 through the fourth quarter of 2025. In 2025, TCE was detected above 5 µg/L (the definition of the plume perimeter) in one of the four samples collected from well X616-14G, and one of the four samples collected from well X616-16G. Concentrations of TCE decreased to less than 5 µg/L in fourth quarter samples collected from wells X616-14G and X616-16G. Figure 28 shows the concentrations of TCE detected in the X-616 wells. The potential plume is not shown in the X-616 area in 2025 because plumes are drawn for all areas using the most recent data collected from each monitoring well (the fourth quarter for the affected X-616 monitoring wells).

TCE concentrations (in µg/L) at selected X-616 monitoring wells, first quarter 2020 – fourth quarter 2025

Sampling event[a, b]	X616-09G	X616-13G	X616-14G	X616-16G	X616-20B	X616-25G
4Q-2025	**15.3**	**27.1**	4.65	4.26	**58.7**	2.71
3Q-2025	**40.2**	**29.1**	4.5	**11.3**	**53.8**	1.62
2Q-2025	**23.3**	**27.5**	**5.25**	0.89J	**39.8**	1.54
1Q-2025	**13.6**	**25.4**	4.59	1.32	**38.4**	1.17
3Q-2024	**36.1J**	**28.5**	**5.47**	**9.74**[c]	**40.4**	1.6
1Q-2024	**36.3**	**30.3**	**5.44**	**14.1**	**84.3**	**5.26**
3Q-2023	**23.1**	**23.7**	**6.01**[d]	ns	**34.5**	1.59[d]
1Q-2023	**29.5**	**26.8**	4.54J	0.3U	**29.2**	0.952J
3Q-2022	**33.9**	**36.7**	**5.1**	ns	**41.2**	1.38
1Q-2022	**25.3**	**25.1**	4.86	1.81	**34.9**	1.27
3Q-2021	**33.6**	**28.6**	**5.11**	ns	**38.6**	1.31
1Q-2021	**26**	**22.2**	3.75J	1.15	**32.3**	1.55
3Q-2020	**33J**	**27**	4.2	ns	**29**	1.3
1Q-2020	**28**	**22**	4.2	0.78J	**24**	2

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
[b]Results in bold type are above the PRG.
[c]Sample result from the fourth quarter of 2024.
[d]Sample result from the fourth quarter of 2023. Third quarter result for TCE was not usable due to sample contamination.
J – estimated. U – undetected. ns – not sampled.

Additionally, four non-IGWMP wells were sampled in the second, third, and fourth quarters of 2025 to provide additional information about concentrations of TCE in the monitoring area. Samples were collected from the following wells:

- Two Gallia wells immediately south (sidegradient) of the former surface impoundments (X616-03G and X616-07G)
- One Gallia well on the east side (upgradient) of the former surface impoundments (X616-08G)
- One Berea well on the east side (upgradient) of the former surface impoundments (X616-18B), which is paired with an IGWMP Gallia well (X616-02G).

The following table provides the TCE results for the non-IGWMP X-616 wells sampled in 2025. TCE was not detected in samples collected from wells X616-03G and X616-07G. TCE was detected in at least one sample collected from wells X616-08G and X616-18B.

TCE results (in µg/L) at selected non-IGWMP X-616 monitoring wells

Sampling event[a, b]	X616-03G	X616-07G	X616-08G	X616-18B
4Q-2025	0.333U	0.333U	0.333U	**16.5**
3Q-2025	0.333U	0.333U	**32.9**	**9.14**
2Q-2025	0.333U	0.333U	0.63J	2.31

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]Results in bold type are above the PRG.
J – estimated. U – undetected.

DOE plans to continue quarterly monitoring for VOCs at IGWMP wells X616-09G, X616-13G, X616-14G, X616-16G, and X616-20B in 2026. Non-IGWMP wells X616-08G and X616-18B will also be monitored quarterly for VOCs in 2026. No additional sampling of wells X616-03G and X616-07G is planned since TCE was not detected in these wells.

The only other VOC detected above the PRG in the X-616 monitoring wells is 1,1-dichloroethene, which was detected in seven wells at a maximum concentration of 58.1 µg/L. The PRG for 1,1-dichloroethene is 7 µg/L.

Samples from each of the IGWMP wells were also analyzed for beryllium, cadmium, chromium, manganese, and nickel. Chromium and/or nickel are routinely detected above the PRGs (100 µg/L) in samples collected from well X616-05G. Figure 28 shows the concentrations of chromium and nickel detected in the samples collected from the X-616 wells in 2025. The following table lists the concentrations of chromium and/or nickel detected in well X616-05G and X616-25G from 2020 through 2025. No other metals were detected above the respective PRGs.

Chromium and nickel concentrations (in µg/L) detected at selected X-616 wells, 2020 – 2025

Sampling	X616-05G		X616-25G
event[a,b]	Cr (100)	Ni (100)	Ni (100)
1Q-2025	**917**	**201**	**211**
1Q-2024	**6210DJ**	**385J**	ns
1Q-2023	**515**	**253**	**213**
1Q-2022	**1140J**	**217J**	ns
1Q-2021	**544D**	**240**	**278D**
1Q-2020	**2300BJ**	**220J**	ns

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
[b]The PRG for each parameter is provided in parentheses. Results in bold type are at or above the PRG.
B – The analyte was detected above one-half the reporting limit in an associated blank. D – The reported value is from a dilution. J – estimated. ns – not sampled.

4.3.2 X-740 Former Waste Oil Handling Facility

Ten wells monitor the X-740 Former Waste Oil Handling Facility. Seven of these wells were installed after restoration of the area that was excavated in 2021. Three wells west of the restored excavation area are also part of the monitoring program. Figure 8 shows the groundwater monitoring wells for the X-740 area.

Four wells that monitor the X-740 Former Waste Oil Handling Facility were sampled during CY 2025. Samples from the wells were analyzed for VOCs (see Tables 3 and 6). Appendix C provides analytical data tables for this area.

The *Ohio Environmental Protection Agency's Decision Document for Quadrant III of the Portsmouth Gaseous Diffusion Plant* (Ohio EPA 1999a) identifies the COCs and PRGs for the X-740 area, which include TCE and other VOCs. Table 8 lists these COCs and the associated PRGs that are used to evaluate the groundwater monitoring results for the X-740 monitoring area.

TCE is the primary COC detected in groundwater at the X-740 area. Figure 29 shows the results for TCE in the X-740 monitoring wells in 2025. The following table provides the concentrations of TCE detected in the X-740 wells between the fourth quarter of 2022 and the second quarter of 2025.

TCE concentrations (in µg/L) in X-740 Former Waste Oil Handling Facility wells, fourth quarter CY 2022 – second quarter CY 2025

Sampling event[a,b]	X740-24B	X740-25G	X740-26B	X740-27G	X740-28G
2Q-2025	ns	ns	**85.3**	**64.4**	ns
4Q-2024	ns	ns	**90.5**	**78.8**	ns
4Q-2023	0.3U	0.329J	**81.1**	**110**	1.01
3Q-2023	0.3U	0.326J	**90.1**	**125J**	1.14
2Q-2023	0.3U	0.3U	**73.9**	**101J**	1.07
1Q-2023	0.3U	0.3U	**82**	**98.9**	1.89
4Q-2022	0.3U	0.3U	**74.3**	**79.7**	1.48

Sampling event[a,b]	X740-29G	X740-30G	X740-11G	X740-12B	X740-13G
2Q-2025	ns	ns	**5.24**	0.333U	ns
4Q-2024	ns	ns	**5.09**[c]	0.333U	0.3U[c]
4Q-2023	2.46	0.445J	4.13	0.3U	0.3U
3Q-2023	3.55	0.559J	**5.95**	0.3U	0.3UJ
2Q-2023	2.23	0.529J	**8.5/8.63**	0.3U	0.3U
1Q-2023	2.55	0.755J	**9.45**	0.3U	0.3U
4Q-2022	2.86	0.699J	**8.65**	0.3U	0.3U

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]Results in bold type are at or above the PRG.
[c]Sampled in the second quarter of 2024.
J – estimated. U – undetected. ns – not sampled.

TCE was detected above the PRG (5 µg/L) in two of the X-740 monitoring wells within the restored excavation area: X740-26B and X740-27G. Well X740-26B is located in the area where TCE was highest prior to excavation of the area. Well X740-27G is located approximately 200 ft south-southwest of well X740-26B. In accordance with the May 2024 IGWMP, the other X-740 wells within the restored excavation area (X740-24B, X740-25G, X740-28G, X740-29G, and X740-30G) were not sampled in 2025. These wells require sampling every five years and will be sampled in 2028.

Of the three wells west of the excavation area, TCE is routinely detected in one well (X740-11G). In 2025, TCE was detected at 5.24 µg/L. VOCs were not detected in well X740-12B.

Three additional VOCs were detected in wells X740-26B and X740-27G at concentrations exceeding the PRGs. 1,1,-Dichloroethene was detected above the PRG (7 µg/L) in wells X740-26B and X740-27G at a concentrations ranging from 26.7 to 39.2 µg/L. 1,2-Dichloroethane was detected at 8.37 and 8.08 µg/L in in regular and duplicate samples collected from well X740-26B, which are above the PRG (5 µg/L).

4.3.3 X-530A Switchyard Complex

One well at the X-530A Switchyard Complex (see Figure 8) was sampled during the second quarter of 2025. Samples were analyzed for VOCs and chromium. TCE and chromium were identified as COCs in the Deferred Units RFI/CMS Report (DOE 2021b). Results are compared to the FRLs for deferred units provided in the Deferred Units Decision Document (Ohio EPA 2023) (see Table 9).

TCE was detected at 14.8 µg/L in the sample collected from well X530A-03G, which exceeds the FRL (5 µg/L). Chromium was detected at 21.6 µg/L, which is less than the FRL (100 µg/L).

TCE and chromium concentrations (in µg/L)
in well X530A-03G, 2016 – 2025

Sampling event[a,b]	Cr (100)	TCE (5)
2Q-2025	21.6	**14.8**
4Q-2024	44.7	**18.3**
4Q-2019[c]	ns	**23.4**
1Q-2016[c]	**200**	**28.2**

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]The FRL for each parameter is provided in parentheses. Results in bold type are at or above the FRL.
[c]Results from samples collected for the Deferred Units RFI (DOE 2021b).
Cr – chromium. ns – not sampled.

4.3.4 X-744N, P, and Q Warehouses

One well at the X-744N, P, and Q Warehouses (see Figure 9) was sampled during the second quarter of 2025. The sample was analyzed for cobalt and nickel, which were identified as COCs in the Deferred Units RFI/CMS Report (DOE 2021b). Results are compared to the FRLs for deferred units provided in the Deferred Units Decision Document (Ohio EPA 2023) (see Table 9).

Cobalt and nickel were both detected above the FRLs in the sample collected from well F-21G. Concentrations of these metals have decreased since 2016 when the well was sampled for the Deferred Units RFI.

Cobalt and nickel concentrations (in µg/L) in well F-21G, 2016 – 2025

Sampling event[a,b]	Co (0.60)	Ni (39.2)
2Q-2025	**2.59**	**22.3**
4Q-2024	**3.72**	**46.7**
1Q-2016[c]	**16.7**	**123**

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]The FRL for each parameter is provided in parentheses. Results in bold type are at or above the FRL.
[c]Results from samples collected for the Deferred Units RFI (DOE 2021b).
Co – cobalt. Ni – nickel

4.4 QUADRANT IV

In Quadrant IV, groundwater is monitored at seven areas: X-611A Former Lime Sludge Lagoons, X-735 Landfills, X-734 Landfills, X-533 Former Switchyard Complex, X-230J6 Northeast Holding Pond and Northeast Drainage Ditch, X-342 Fluorine Buildings, and X-630 Former Recirculating Cooling Water Complex.

4.4.1 X-611A Former Lime Sludge Lagoons

Six wells at the X-611A Former Lime Sludge Lagoons were sampled during the first and third quarters of CY 2025. Samples were analyzed for beryllium and chromium, which are identified as COCs in the *Decision Document for the X-611A SWMU* (Ohio EPA 1996b). Sampling results are compared to the PRGs provided in the *Quadrant IV Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 1998b). Table 8 lists the COCs and PRGs for the X-611A Former Lime Sludge Lagoons. Appendix D provides the analytical data tables for this area, and Figure 30 shows the results for beryllium and chromium in the X-611A wells in 2025.

Chromium was detected in the samples collected from five of the six wells in this area at concentrations between 1.49 and 14.9 µg/L, which are less than the PRG (100 µg/L).

Beryllium was detected in two wells at concentrations less than the PRG (6.5 µg/L for Gallia wells and 7 µg/L for Berea wells). Beryllium was not detected in the other X-611A monitoring wells.

4.4.2 X-735 Landfills

Sampling was conducted at 17 wells that monitor the X-735 Landfills during the second and fourth quarters of CY 2025. Figure 11 shows the groundwater monitoring wells at this area. Tables 4 and 6 show the monitoring frequency and analytical parameters for the X-735 wells. Appendix D provides the analytical data tables for this area.

The X-735 Landfills are in post-closure monitoring under solid waste regulations as described in the 1999 and 2011 DFF&Os on Integration. Therefore, data for the X-735 Landfills are not assessed by comparisons to PRGs or FRLs, but by the statistical evaluations and concentration limits described in this section.

As required by the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a), concentrations of three metals (cobalt, mercury, and nickel) detected in downgradient Gallia wells (X735-02GA, X735-03G, X735-03GA, X735-04G, X735-04GA, X735-05G, X735-05GA, X735-06GAA, X735-12G, and X735-21G) are compared to concentration limits based on drinking water standards or site background

concentrations. These concentration limits are: cobalt – 153 µg/L, mercury – 2 µg/L, and nickel – 100 µg/L. Concentrations of cobalt, mercury, and nickel detected in the downgradient Gallia wells sampled during 2025 did not exceed these limits.

Concentrations of alkalinity, chloride, sodium, sulfate, and total dissolved solids in downgradient Gallia wells for this area are compared to concentration limits provided in the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a). These concentration limits are: alkalinity – 434 mg/L, chloride – 250 mg/L, sodium – 250 mg/L, sulfate – 500 mg/L, and total dissolved solids – 500 mg/L. Concentrations of alkalinity, chloride, sodium, sulfate, and total dissolved solids detected in the downgradient Gallia wells sampled during 2025 did not exceed these concentration limits.

Concentrations of cobalt, mercury, nickel, alkalinity, chloride, sodium, sulfate, and total dissolved solids in downgradient Gallia wells are statistically evaluated to monitor potential impacts to groundwater and trends in concentrations of these monitoring parameters. Intra-well Shewhart and CUSUM control limits are calculated using historical baseline data for each well. The Shewhart control limit is sensitive to rapid increases in the concentrations of indicator parameters; whereas the CUSUM control chart limit is sensitive to gradual increases in indicator parameters. Additionally, concentrations of mercury in most of the downgradient Gallia wells are evaluated using an upper prediction limit because mercury is detected in less than half of the samples collected from the wells, which means that the Shewhart and CUSUM control limits should not be used. None of the statistical limits were exceeded in 2025.

Under the detection monitoring program for Berea wells at the X-735 Landfills, concentrations of selected parameters in downgradient Berea wells are evaluated to monitor potential impacts to groundwater and trends in concentrations of these selected parameters (alkalinity, ammonia, calcium, chloride, iron, nitrate/nitrite, potassium, sodium, and sulfate). Intra-well Shewhart and CUSUM control limits are calculated using historical baseline data for each well. Ohio EPA is notified when the Shewhart control limit for any of the indicator parameters is exceeded in two consecutive semiannual sampling events at any of the downgradient Berea wells.

In 2025, none of the Shewhart control limits or CUSUM control limits were exceeded in any of the downgradient Berea wells.

Appendix F provides a summary of the results of the statistical evaluations completed for the X-735 Landfills during 2025 as required by the IGWMP and *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a).

Samples collected from the X-735 Landfill wells during the second quarter were analyzed for VOCs. Toluene was detected in two wells at estimated concentrations less than 0.5 µg/L .

Samples collected from each of the wells in the second quarter were also analyzed for technetium-99, uranium, and isotopic uranium (uranium-233/234, uranium-235/236, and uranium-238). Technetium-99 was not detected in any of the wells. Uranium and uranium isotopes, if detected, were present at low levels typical for the wells in this area and below the drinking water standard (30 µg/L for uranium).

4.4.3 X-734 Landfills

The 15 wells that monitor the X-734 Landfills were sampled in the second and fourth quarters of CY 2025. Figure 12 shows the groundwater monitoring wells at this area. Tables 4 and 6 show the monitoring frequency and analytical parameters for the X-734 wells. Table 8 identifies the COCs and PRGs identified for groundwater at the X-734 Landfills in the X-734 Decision Document (Ohio EPA 1999b). Appendix D provides the analytical data tables for this area.

Three VOCs, *cis*-1,2-dichloroethene, TCE, and vinyl chloride, are identified as COCs in Gallia groundwater in the X-734 Decision Document (Ohio EPA 1999b). These VOCs were routinely detected only in well X734-23G, which monitors the former X-734B Construction Spoils Landfill in the southern portion of the area. None of these VOCs have been detected above the respective PRGs in samples collected during the past six years. The following table provides the results for these three COCs in well X734-23G from 2020 through 2025.

The presence of *cis*-1,2-dichloroethene and vinyl chloride along with the absence of TCE in well X734-23G may indicate that natural reductive dechlorination of TCE is occurring beneath the X-734B Construction Spoils Landfill.

Low concentrations of VOCs commonly associated with natural gas (1,2-dimethylbenzene, benzene, chlorobenzene, ethylbenzene, xylenes and/or toluene) are routinely detected at concentrations below PRGs in groundwater samples collected from well X734-05B. Benzene was detected at 1.06 µg/L in the fourth quarter sample collected from this well in 2025. None of these VOCs are COCs for the X-734 Landfills. Well X734-05B is screened in the Bedford Shale formation (the Berea is not present in the northern portion of the X-734 Landfills area where well X734-05B is installed). The Bedford Shale has produced some oil and natural gas regionally.

VOCs (in µg/L) routinely detected in well X734-23G, second quarter CY 2020 – fourth quarter CY 2025

Sampling event[a]	*cis*-1,2-DCE (70)[b]	TCE (5)	VC (2)
4Q-2025	1.29	0.333U	1.32
2Q-2025	1.9	0.333U	1.33
4Q-2024	1.81	0.3U	1.08
2Q-2024	1.1	0.3U	0.592J
4Q-2023	1.38	0.3U	0.505U
2Q-2023	0.321U	0.3U	0.505U
4Q-2022	2.45	0.3U	1.2
2Q-2022	2.65	0.16U	0.1U
4Q-2021	2.98	0.16U	1.13
2Q-2021	3.07	0.16U	0.1U
4Q-2020	4.42	0.16U	1.45
2Q-2020	4.93	0.638U	1.41J

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]The PRG for each parameter is provided in parentheses.
cis-1,2-DCE – *cis*-1,2-dichloroethene. TCE – trichloroethene. VC – vinyl chloride.
J – estimated. U – undetected.

Samples collected from each of the wells in the second quarter were analyzed for five metals (beryllium, cadmium, chromium, manganese, and nickel). Beryllium, chromium, and nickel are COCs for groundwater at the X-734 Landfills. None of the samples contained metals at concentrations above the respective PRGs provided in the X-734 Decision Document (Ohio EPA 1999b).

Samples collected from each well in the second quarter were also analyzed for transuranic radionuclides (americium-241, neptunium-237, plutonium-238, and plutonium-239/240), technetium-99, uranium, and isotopic uranium (uranium-233/234, uranium-235/236, and uranium-238). No transuranics or technetium-99 were detected in the samples. Detections of uranium and uranium isotopes in the X-734 wells were typical for these wells and below the drinking water standard (30 µg/L for uranium).

4.4.4 X-533 Former Switchyard Complex

Samples were collected during the second and fourth quarters of CY 2025 from three wells (F-03G, X533-03G, and TCP-01G) at the X-533 Former Switchyard Complex, a deferred unit identified in the Quadrant IV Decision Document (Ohio EPA 2000). Samples were analyzed for cadmium, chromium, cobalt, and nickel.

Figure 27 shows the well locations and concentrations of metals detected in each well sample. Appendix D provides a data summary table for the X-533 Former Switchyard Complex wells.

The following table summarizes concentrations of metals detected at the X-533 Former Switchyard Complex. Results are compared to the FRLs for deferred units provided in the Deferred Units Decision Document (Ohio EPA 2023) (see Table 9).

Analytical results for metals (in µg/L) at the X-533 Former Switchyard Complex, second quarter CY 2020 – fourth quarter CY 2025

Sampling event[a]	F-03G				TCP-01G			
	Cd (5)[b]	Cr (100)	Co (0.60)	Ni (39.2)	Cd (5)	Cr (100)	Co (0.60)	Ni (39.2)
4Q-2025	**54**	15.7	**109**	**543**	**5.92**	3U	**19.6**	**83.5**
2Q-2025	**45.4**	31.8	**98.1**	**488**	**13.1**	3U	**32.7**	**140**
4Q-2024	**52.8**	**109**	**112**	**749**	**52.8**	5.27J	**29.8**	**749**
2Q-2024	**39.3**	na	na	**563D**	**39.3**	na	na	**563D**
4Q-2023	**39.3**	na	na	**481J**	**39.3**	na	na	**481J**
2Q-2023	**44.8**	na	na	**462J**	**44.8**	na	na	**462J**
4Q-2022	**37.5**	na	na	**384J**	**37.5**	na	na	**384J**
2Q-2022	**35.3**	na	na	**403J**	**35.3**	na	na	**403J**
4Q-2021	**39.2**	na	na	**419J**	**39.2**	na	na	**419J**
2Q-2021	**42.4**	na	na	**451**	**42.4**	na	na	**451**
4Q-2020	**31.9B**	na	na	**361**	**31.9B**	na	na	**361**
2Q-2020	**45.9**	na	na	**528**	**45.9**	na	na	**528**

Sampling event[a]	X533-03G			
	Cd (5)[b]	Cr (100)	Co (0.60)	Ni (39.2)
4Q-2025	**36.2**	3U	**68.6**	**379**
2Q-2025	**18.4**	3U	**38.1**	**206**
4Q-2024	**53.1**	3U	**94**	**517**
2Q-2024	**19.3**	na	na	**264D**
4Q-2023	**35.7**	na	na	**393J**
2Q-2023	**22.8**	na	na	**270**
4Q-2022	**38.7**	na	na	**436**
2Q-2022	**23**	na	na	**268**
4Q-2021	**36.3**	na	na	**398**
2Q-2021	**25.3**	na	na	**290**
4Q-2020	**36B**	na	na	**400**
2Q-2020	**30**	na	na	**345**

[a]Sampling events are denoted by quarter and calendar year; i.e., 2Q-2025 is the second quarter of CY 2025.
[b]The FRL for each parameter is provided in parentheses. Results in bold type are at or above the FRL.
Cd – cadmium. Cr – chromium. Co – cobalt. Ni – nickel. B – The analyte was detected above one-half the reporting limit in an associated blank. D – The reported value is from a dilution. J – estimated. na – not analyzed.

4.4.5 X-230J6 Northeast Holding Pond and Northeast Drainage Ditch

Samples were collected during the third quarter of CY 2025 from three wells (F-07G, F-08B, and X230J6-01G) at the X-230J6 Northeast Holding Pond and Northeast Drainage Ditch, which are deferred units identified in the Quadrant IV Decision Document (Ohio EPA 2000). Figure 10 shows the locations of these monitoring wells.

Wells F-07G and F-08B monitor the Northeast Drainage Ditch. Samples from these wells are analyzed for selected metals (arsenic, thallium, and vanadium), uranium, and isotopic uranium (uranium-233/234, uranium-235/236, and uranium-238). These wells were not sampled during the Deferred Units RFI. However, arsenic, thallium, vanadium, uranium, and uranium-238 were detected at concentrations exceeding PRGs in soil samples collected from this area at depths 8 to 10 ft below ground surface. These soil samples were below the groundwater table (7 ft below ground surface). Therefore, the Deferred Units RFI/CMS Report (DOE 2021b) requires monitoring of the wells to evaluate the potential impact that these metals in soil may have on groundwater.

Thallium, uranium, and uranium-238 were detected in the samples from well F-07G at levels exceeding the respective FRLs. The following table summarizes the results for wells F-07G and F-08B.

Analytical results for selected metals and radionuclides at Northeast Drainage Ditch monitoring wells, 2024 – 2025

Sampling event[a]	F-07G				
	As (10)[b]	Tl (2)	V (8.64)	U (30)	U-238 (9.9)
3Q-2025	2.54J	1.75J	3.3U	**31.3**	**10.5**
3Q-2024	2.53J	**3.23**	2.49J	**35.5**	**11.8**
	F-08B				
Sampling event[a]	As (10)[b]	Tl (2)	V (8.64)	U (30)	U-238 (9.9)
3Q-2025	2U	0.6U	3.3U	0.124U	0.0286U
3Q-2024	0.5U	0.21U	1.12U	0.0894U	0.0264U

[a]Sampling events are denoted by quarter and calendar year; i.e., 3Q-2025 is the third quarter of CY 2025.
[b]The FRL for each parameter is provided in parentheses. Results in bold type are at or above the FRL. Results reported in µg/L except U-238 (pCi/L).
As – arsenic. Tl – thallium. V – vanadium. U – uranium. U-238 – uranium-238.
J – estimated. U – undetected.

Well X230J6-01G monitors the X-230J6 Northeast Holding Pond and is sampled for cobalt. Cobalt was detected at 2.99 and 2.85 µg/L (regular and duplicate samples), which exceed the FRL (0.60 µg/L). Cobalt was detected at 4.39 µg/L in 2024 and 23 µg/L in the sample collected from well X230J6-01G in 2016 during the Deferred Units RFI (DOE 2021b).

4.4.6 X-342 Fluorine Buildings

Samples were collected during the third quarter of CY 2025 from three wells (F-09G, X342C-01G, and X745F-01G) at the X-342 Fluorine Buildings, a deferred unit identified in the Quadrant IV Decision Document (Ohio EPA 2000). Figure 14 shows the locations of these monitoring wells. Samples were analyzed for cobalt.

Cobalt concentrations (in µg/L) in X-342 Fluorine Buildings wells, 2015 – 2025

Sampling event[a,b]	F-09G	X342C-01G	X745F-01G
3Q-2025	**276**	**11.8**	**0.843J**
3Q-2024	**388**	**13**	**1.2J**
3Q/4Q-2015[c]	**264**	**14.2**	**1.84**

[a]Sampling events are denoted by quarter and calendar year; i.e., 3Q-2025 is the third quarter of CY 2025.
[b]Results in bold type are at or above the FRL (0.60 µg/L).
[c]Results from samples collected in the third or fourth quarters of 2015 for the Deferred Units RFI (DOE 2021b).
J – estimated.

Cobalt was detected in each of the samples at concentrations above the FRL (0.60 µg/L). Cobalt was detected at similar concentrations in samples collected from these wells during the Deferred Units RFI (DOE 2021b).

4.4.7 X-630 Former Recirculating Cooling Water Complex

One well that monitors the X-630 Former Recirculating Cooling Water Complex, a deferred unit identified in the Quadrant IV Decision Document (Ohio EPA 2000), was sampled for arsenic and chromium during the fourth quarter of CY 2025. Figure 14 shows the location of monitoring well X630-02G.

Well X630-02G was not sampled during the Deferred Units RFI. However, arsenic and chromium were detected at levels exceeding PRGs in soil samples at depths 20 to 25 ft below ground surface. These soil samples were below the groundwater table (12 ft below ground surface). Therefore, the Deferred Units RFI/CMS Report (DOE 2021b) requires groundwater monitoring to evaluate the potential impact that these metals in soil may have on groundwater.

In the fourth quarter of 2025, arsenic was not detected in the sample collected from well X630-02G. Chromium was detected at 15.1 µg/L, which is less than the FRL (100 µg/L).

Arsenic and chromium concentrations (in µg/L) in well X630-02G, 2024 – 2025

Sampling event[a,b]	As (10)	Cr (100)
4Q-2025	2U	15.1
4Q-2024	0.5U	11.7J

[a]Sampling events are denoted by quarter and calendar year; i.e., 4Q-2025 is the fourth quarter of CY 2025.
[b] The FRL for each parameter is provided in parentheses.
As – arsenic. Cr – chromium.

4.5 SURFACE WATER MONITORING RESULTS

The integrated surface water monitoring program includes monitoring locations on Big Run Creek (BRC), East Drainage Ditch (EDD), Little Beaver Creek (LBC), North Holding Pond (NHP), Southwestern Drainage Ditch (UND), and West Drainage Ditch (WDD). Fourteen locations were sampled quarterly in CY 2025, with the exception of Little Beaver Creek sampling location LBC-SW04 and Big Run Creek sampling location BRC-SW01. Little Beaver Creek sampling location LBC-SW04 was not sampled in 2025 due to safety concerns at the sampling location. Big Run Creek sampling location BRC-SW01 was not sampled in the second quarter because there was no flow at the location. Samples were analyzed for the parameters listed in Tables 5 and 6. The analytical data tables for surface water monitoring are provided in Appendix E. Figure 15 shows the surface water sampling locations.

TCE is routinely detected in samples collected from the East Drainage Ditch and some of the monitoring locations on Little Beaver Creek (LBC-SW01 and LBC-SW02). In 2025, TCE was detected at a maximum concentration of 62.7 µg/L in the sample collected from the East Drainage Ditch (EDD-SW01) in the first quarter of 2025. TCE was not detected in three of the four samples collected in 2025 at LBC-SW03, the furthest downstream sampling location on Little Beaver Creek that was sampled in 2025. The fourth sample contained TCE at an estimated concentration less than 0.5 µg/L.

The following table provides the results for TCE in the routine quarterly surface water samples collected from the East Drainage Ditch and Little Beaver Creek between 2021 and 2025.

Analytical results for TCE (in µg/L) in surface water in the East Drainage Ditch and Little Beaver Creek, first quarter CY 2021 – fourth quarter CY 2025

Sampling event[a]	EDD-SW01	LBC-SW01	LBC-SW02	LBC-SW03	LBC-SW04
4Q-2025	1.44	0.82J	0.333U	0.333U	ns
3Q-2025	0.44J	0.333U	0.333U	0.333U	ns
2Q-2025	1.95	1.26	0.51J	0.333U	ns
1Q-2025	62.7	4.43	2.48	0.42J	ns
4Q-2024	16.6	2.75	1.71	0.66J	ns
3Q-2024	0.591J	0.326J	0.3U	0.3U	0.3U
2Q-2024	3.23	1.26	0.519J	0.3U	0.3U
1Q-2024	20	8.66	3.5	0.3U	0.3U
4Q-2023	0.924J	0.553J	0.3U	0.3U	0.324J
3Q-2023	0.996J	0.666J	0.392J	0.387J	0.3U
2Q-2023	3.68	0.805J	0.449J	0.3U	0.3U
1Q-2023	9.8	2.31J	0.929J	0.3U	0.3U
4Q-2022	4.9	4.07	0.587J	0.3U	0.3U
3Q-2022	4.06	2.43	1.12	0.3U	0.3U
2Q-2022	21	22.6	10.3	0.16U	0.16U
1Q-2022	128	12.3	8.12	1.88	0.746J
4Q-2021	20.7	4.61	1.32	0.16U	0.16U
3Q-2021	1.26	1.06	0.16U	0.16U	0.16U
2Q-2021	47	28.3	9.14	0.258J	0.16U
1Q-2021	5.3	11.3	8.03	3.5	1.79

[a]Sampling events are denoted by quarter and calendar year; i.e., 1Q-2025 is the first quarter of CY 2025.
J – estimated. U – undetected ns – not sampled.

TCE was detected at concentrations up to 3.04 µg/L in samples collected from the Southwestern Drainage Ditch at UND-SW01. C*is*-1,2-dichloroethene was also detected at 0.39 µg/L in the third quarter sample collected at UND-SW01. VOCs were not detected in the samples collected from the Southwestern Drainage Ditch at UND-SW02.

Trihalomethanes (bromodichloromethane, bromoform, dibromochloromethane, and/or chloroform) were detected at sampling points on East Drainage Ditch, Little Beaver Creek, North Holding Pond, and the West Drainage Ditch. Trihalomethanes are common residuals in treated drinking water. These sampling points receive treated drinking water through permitted NPDES outfalls.

Samples collected in the second and fourth quarters at monitoring locations on the East Drainage Ditch (EDD-SW01), Little Beaver Creek (LBC-SW01, LBC-SW02, and LBC-SW03), and North Holding Pond (NHP-SW01) were analyzed for PAHs. Although this sampling is required by the Deferred Units RFI/CMS Report (DOE 2021b), FRLs for surface water are not provided in the Deferred Units Decision Document. PAHs were not detected in any of the surface water samples in 2025.

Samples collected in the second and fourth quarters at monitoring locations on Big Run Creek (BRC-SW01, BRC-SW02 and BRC-SW05), East Drainage Ditch (EDD-SW01), Little Beaver Creek (LBC-SW01, LBC-SW02, LBC-SW03), and North Holding Pond (NHP-SW01) were analyzed for selected metals (arsenic, cobalt, iron, manganese, and thallium).

Thallium was not detected in any of the surface water samples collected in 2025. Results for other metals are summarized below:

- Arsenic ranged from undetected to 2.75 µg/L.
- Cobalt ranged from undetected to 1.12 µg/L.
- Iron ranged from 106 to 887 µg/L.
- Manganese ranged from 7.7 to 147 µg/L.

Metals are naturally present in soil and therefore should be expected to be present in surface water. Although surface water sampling for these selected metals is required by the Deferred Units RFI/CMS Report (DOE 2021b), FRLs for surface water are not provided in the Deferred Units Decision Document (Ohio EPA 2023).

Surface water samples collected in the second and fourth quarters of 2025 were analyzed for selected transuranics (americium-241, neptunium-237, plutonium-238, and plutonium-239/240). No transuranics were detected in the surface water samples collected during 2025.

Surface water samples were analyzed for technetium-99, uranium, and uranium isotopes (uranium-233/234, uranium-235/236, and uranium-238). Technetium-99 is occasionally detected in samples collected from the East Drainage Ditch and Little Beaver Creek. These detections are within the historical range of technetium-99 detected in East Drainage Ditch and Little Beaver Creek and are less than the DOE derived concentration standard for technetium-99 (390,000 pCi/L) (DOE 2022b). Derived concentration standards are radiological quantities, used in the development and conduct of environmental and public radiation protection programs implemented at DOE sites and for DOE activities. The derived concentration standard is the concentration of a radionuclide in air or water that, under conditions of continuous exposure for one year by one exposure mode (ingestion of water or inhalation of air), would result in a dose of 100 mrem/year to a reference member of the population.

In 2025, technetium-99 was detected at levels up to 26.9 pCi/L in the samples collected from the East Drainage Ditch (EDD-SW01). Technetium-99 was detected at levels up to 10.4 pCi/L in at least one

sample collected from each of the Little Beaver Creek sampling locations. Technetium-99 was not detected in any of the other surface water samples. These detections are less than 0.007% of the DOE derived concentration standard for technetium-99 (390,000 pCi/L) (DOE 2022b).

The maximum detections of uranium, uranium-233/234, uranium-235/236, and uranium-238 in surface water samples were detected in samples collected from East Drainage Ditch (EDD-SW01) or Big Run Creek (BRC-SW01) as follows:

- Uranium was detected at a maximum concentration of 5.81 µg/L (BRC-SW01).
- Uranium-233/234 was detected at a maximum activity of 4.81 pCi/L (EDD-SW01).
- Uranium-235/236 was detected at a maximum activity of 0.301 pCi/L (EDD-SW01).
- Uranium-238 was detected at a maximum activity of 1.93 pCi/L (BRC-SW01).

The concentrations of uranium detected in the surface water samples were less than 0.5% of the DOE derived concentration standards for uranium isotopes (1200 pCi/L for uranium-233/234, 1300 pCi/L for uranium-235, and 1400 pCi/L for uranium-238) (DOE 2022b). The detections of uranium and uranium isotopes in surface water during 2025 were consistent with sampling results for previous years (DOE 2021a, DOE 2022a, DOE 2023a, DOE 2024a, DOE 2025a).

4.6 WATER SUPPLY MONITORING RESULTS

Residential drinking water sources are routinely monitored in accordance with the requirements of Section VIII of the September 1989 Consent Decree between the State of Ohio and DOE. The purpose of this program is to determine whether residential drinking water sources have been adversely affected by plant operations. Although this program may provide an indication of contaminant transport off site, it should not be interpreted as an extension of the on-site groundwater monitoring program.

Two residential drinking water sources (RES-014 and RES-015) and the PORTS water supply (RES-012) were part of the water supply monitoring program in 2025. One residential water supply, RES-017, was not sampled in 2025 because the property owner had not renewed the license agreement that allow DOE access to the property for sampling. Figure 16 shows the water supply monitoring locations.

These water sources were sampled during the first and third quarters of CY 2025. Samples were analyzed for the parameters listed in Tables 5 and 6. Appendix E provides a data table for the water supply samples collected during 2025.

Chlorination byproducts called trihalomethanes (bromodichloromethane, bromoform, chloroform, and dibromochloromethane), which are common residuals in treated drinking water, are routinely detected in samples collected from residential sampling location RES-015, and were detected in the samples collected from this location. The total concentration of these trihalomethanes in the samples collected in 2025 was below the Ohio EPA drinking water standard (80 µg/L for total trihalomethanes). No other VOCs were detected in the water supply samples collected in 2025.

Each sample was analyzed for transuranics (americium-241, neptunium-237, plutonium-238, and plutonium-239/240), technetium-99, uranium, and uranium isotopes (uranium-233/234, uranium-235/236, and uranium-238). No transuranics or technetium-99 were detected in any of the water supply samples collected in 2025.

Uranium was detected at concentrations less than the Ohio EPA drinking water standard for uranium (30 µg/L) in the PORTS water supply (RES-012) and one residential water supply (RES-015). The highest concentration of uranium detected in the water supply samples collected in 2025 was 1.66 µg/L.

As previously mentioned, groundwater at PORTS is not used for drinking water and is not hydraulically connected to the Scioto River Valley buried aquifer.

Each of the radiological parameters for the water supply monitoring program, with the exception of technetium-99, emits alpha activity. Therefore, alpha activity is included in the water supply monitoring program in order to assess the total alpha activity in the water supply samples. In 2025, alpha activity was detected in one sample collected from RES-015 at 1.55 pCi/L, which is less than the Ohio EPA drinking water standard for alpha activity (15 pCi/L, excluding radon and uranium). Alpha activity was not detected in any of the other water supply samples.

4.7 SPECIAL STUDIES/INVESTIGATIONS/CORRECTIVE ACTIONS

In 2025, additional activities were in progress in the X-701B Former Holding Pond and the X-616 Former Chromium Surface Water Surface Impoundments.

4.7.1 X-701B Former Holding Pond/Little Beaver Creek

The performance of the X-237 Groundwater Collection System is monitored by measuring groundwater elevations at 15-minute intervals at four wells in the X-701B area near the X-237 Groundwater Collection System (X701-142G, X701-143G, X701-IRMPZ05G, and X701-IRMPZ08G). Figures 31 and 32 are hydrographs of the groundwater elevation data collected in 2025.

4.7.2 X-616 Former Chromium Sludge Surface Impoundments

Additional sampling was completed at the X-616 Former Chromium Surface Water Surface Impoundments in 2025. Section 4.3.1 includes the data for this special sampling along with the routine data for this monitoring area.

5. GROUNDWATER TREATMENT FACILITIES AND NPDES MONITORING RESULTS

Reporting groundwater treatment facility and associated NPDES monitoring results is not required by the IGWMP, however, this information has been included at the request of Ohio EPA. During CY 2025, approximately 17.7 million gallons of water were treated at the X-622, X-623, X-624, and X-627 Groundwater Treatment Facilities. Approximately 4.8 gallons (58 pounds) of TCE were removed from the water. Facility information is summarized below:

Summary of groundwater treatment facility information for 2025

Facility	Gallons of water treated	Gallons of TCE removed	Pounds of TCE removed
X-622	8,957,020	0.37	4.62
X-623	0	0	0
X-624	826,100	1.02	12.43
X-627	7,901,300	3.40	41.23

All water processed in the groundwater treatment facilities is discharged through an NPDES outfall or internal monitoring location (a location that discharges to an NPDES outfall). Monitoring results for each of these NPDES locations in 2025 are discussed with the operations information for the groundwater treatment facility associated with the location. Appendix G provides the monitoring data for VOCs and radionuclides at each outfall/internal monitoring location for CY 2025. The groundwater treatment facilities, remedial systems, and NPDES outfall/internal monitoring location associated with each groundwater treatment facility are listed below.

Summary of groundwater treatment facilities, associated remedial systems, and associated NPDES outfalls

Facility	Remedial system(s) associated with treatment facility	NPDES monitoring location
X-622	Groundwater collection systems and extraction wells in the X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility, PK Landfill, and Quadrant I Groundwater Investigative (5-Unit) Area	Internal Monitoring Location 608
X-623	Water from miscellaneous site activities (in accordance with the NPDES permit)	Internal Monitoring Location 610
X-624	X-237 Groundwater Collection System at the eastern end of the X-701B groundwater plume	Outfall 015
X-627	Sumps in the X-700 and X-705 buildings in the Quadrant II Groundwater Investigative (7-Unit) Area	Internal Monitoring Location 611

5.1 X-622 GROUNDWATER TREATMENT FACILITY/NPDES INTERNAL MONITORING LOCATION 608

The X-622 Groundwater Treatment Facility consists of an air stripper with aqueous phase activated carbon filtration. This facility processes groundwater from the following systems in Quadrant I:

- Groundwater collection system with associated sump (X749-WPW) and extraction wells (X749-EW05G and X749-EW06G) on the southwest boundary of the X-749 Landfill (see Figure 2)
- Groundwater extraction wells (X749-EW01G, X749-EW02G, X749-EW03G, and X749-EW04G) installed in 2007 in the X-749 South Barrier Wall area (see Figure 2)
- Groundwater extraction wells (X749-EW07G, X749-EW08G, and X749-EW09G) installed in 2010 in the X-749/X-120 area (see Figure 2)
- Groundwater collection systems and associated sumps (PK-PL6 and PK-PL6A) on the eastern boundary of the PK Landfill (see Figure 2)
- Extraction wells located in the Quadrant I Groundwater Investigative (5-Unit) Area (see Figure 3).

In 2025, the facility processed 8,957,020 gallons of groundwater with an average TCE concentration of 64 µg/L, thereby removing approximately 0.37 gallon of TCE from the water.

No NPDES permit limitations were exceeded at Internal Monitoring Location 608 in 2025. TCE was detected in eight of the 23 samples collected from the location at concentrations up to 5.68 µg/L. These detections were less than the daily discharge limitation of 10 µg/L.

No transuranics were detected at this internal monitoring location in 2025. Technetium-99, uranium, uranium-233/234, uranium-235/236, and uranium-238 were detected in the samples as summarized below:

- Technetium-99 was detected at a maximum activity of 261 pCi/L.
- Uranium was detected at a maximum concentration of 3.02 µg/L.
- Uranium-233/234 was detected at a maximum activity of 1.53 pCi/L.
- Uranium-235/236 was detected at a maximum activity of 0.0857 pCi/L.
- Uranium-238 was detected at a maximum activity of 1 pCi/L.

Appendix G provides the monitoring results for this internal monitoring location for 2025.

5.2 X-623 GROUNDWATER TREATMENT FACILITY/NPDES INTERNAL MONITORING LOCATION 610

The X-623 Groundwater Treatment Facility consists of an air stripper with off-gas activated carbon filtration and aqueous-phase activated carbon filtration. This facility currently operates intermittently to treat miscellaneous water associated with site activities in accordance with the NPDES permit.

The X-623 Groundwater treatment Facility did not operate in 2025; therefore, no samples were collected during 2025.

5.3 X-624 GROUNDWATER TREATMENT FACILITY/NPDES OUTFALL 015

The X-624 Groundwater Treatment Facility consists of an air stripper with off-gas activated carbon filtration and aqueous-phase activated carbon filtration. This facility processes TCE-contaminated groundwater from the X-701B groundwater plume, specifically the X-237 Groundwater Collection

System, which consists of collection trenches and pumping wells X237-NPW and X237-SPW (see Figure 5).

In 2025, the X-624 Groundwater Treatment Facility treated 826,100 gallons of water with an average TCE concentration of 1783 µg/L, thereby removing approximately 1.02 gallons of TCE from the water.

No NPDES permit limitations were exceeded at Outfall 015 in 2025. TCE was detected in five of the 24 samples collected from the outfall at a maximum concentration of 1.16 µg/L (average of regular and duplicate samples). These detections were less than the daily discharge limitation of 10 µg/L.

No transuranics were detected at this outfall in 2025. Technetium-99, uranium, uranium-233/234, uranium-235/236, and uranium-238 were detected in the samples as summarized below:

- Technetium-99 was detected at a maximum activity of 16.2 pCi/L.
- Uranium was detected at a maximum concentration of 2.59 µg/L.
- Uranium-233/234 was detected at a maximum activity of 1.78 pCi/L.
- Uranium-235/236 was detected at a maximum activity of 0.0911 pCi/L.
- Uranium-238 was detected at a maximum activity of 0.86 pCi/L.

Appendix G provides the monitoring results for this outfall for 2025.

5.4 X-627 GROUNDWATER TREATMENT FACILITY/NPDES INTERNAL MONITORING LOCATION 611

The X-627 Groundwater Treatment Facility consists of an air stripper with off-gas activated carbon filtration and aqueous-phase activated carbon filtration. The X-700 and X-705 buildings are located above the Quadrant II Groundwater Investigative (7-Unit) Area plume, and contaminated water is collected in sumps located in the basement of each building (see Figure 4).

In 2025, the X-627 Groundwater Treatment Facility treated 7,901,300 gallons of groundwater with an average TCE concentration of 607 µg/L, thereby removing 3.40 gallons of TCE from the water.

No NPDES permit limitations were exceeded at Internal Monitoring Location 611 in 2025. TCE was detected in six of the 24 samples collected from the outfall at a maximum concentration of 0.54 µg/L. These detections were less than the daily discharge limitation of 10 µg/L.

No transuranics were detected at this location in 2025. Technetium-99, uranium, uranium-233/234, uranium-235/236, and uranium-238 were detected in each of the samples as summarized below:

- Technetium-99 was detected at a maximum activity of 795 pCi/L.
- Uranium was detected at a maximum concentration of 7.78 µg/L.
- Uranium-233/234 was detected at a maximum activity of 8.89 pCi/L.
- Uranium-235/236 was detected at a maximum activity of 0.456 pCi/L.
- Uranium-238 was detected at a maximum activity of 2.55 pCi/L.

Appendix G provides the monitoring results for this internal monitoring location for 2025.

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6. SUMMARY

This section summarizes 2025 monitoring results for the following IGWMP areas or programs:

- X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility
- PK Landfill
- Quadrant I Groundwater Investigative (5-Unit) Area
- X-749A Classified Materials Disposal Facility
- Quadrant II Groundwater Investigative (7-Unit) Area
- X-701B Former Holding Pond
- X-633 Former Recirculating Cooling Water Complex
- X-616 Former Chromium Sludge Surface Impoundments
- X-740 Former Waste Oil Handling Facility
- X-530A Switchyard Complex
- X-744N, P, and Q Warehouses
- X-611A Former Lime Sludge Lagoons
- X-735 Landfills
- X-734 Landfills
- X-533 Former Switchyard Complex
- X-230J6 Northeast Holding Pond and Northeast Drainage Ditch
- X-342 Fluorine Buildings
- X-630 Former Cooling Water Complex
- Surface water
- Water supply.

In general, monitoring completed in accordance with the IGWMP during 2025 determined that the concentrations of contaminants were decreasing or similar to previous years and the lateral extent of plume boundaries were similar to previous years.

6.1 X-749 CONTAMINATED MATERIALS DISPOSAL FACILITY/X-120 FORMER TRAINING FACILITY

No VOCs identified as COCs were detected in 2025 in any of the off-site monitoring wells.

In the southern portion of the plume, TCE was detected at concentrations less than 100 µg/L in the quarterly and semiannual samples collected from wells X749-67G and X749-27G in 2025. These results mean that TCE is no longer consistently detected above 100 µg/L in any wells that monitor the southern portion of the plume.

On the northern edge of the plume, immediately north of the X-749 Landfill, TCE decreased in 2025 in wells X749-115G and PK-09G. TCE is also decreasing in well X749-40G, which defines the northern edge of the plume. TCE was detected at 0.88 µg/L in well X749-40G, which has decreased from 2024 (3 µg/L) and from a maximum of 28.5 µg/L in 2022.

Extraction wells in the X-749/X-120 groundwater plume continue to function to control the plume and remove TCE from the groundwater plume.

6.2 PK LANDFILL

Data collected during 2025 at PK Landfill monitoring wells were consistent with data collected in 2024 and 2023 (DOE 2025a and DOE 2024a).

6.3 QUADRANT I GROUNDWATER INVESTIGATIVE (5-UNIT) AREA

Concentrations of TCE detected in the southern portion of the Quadrant I Groundwater Investigative (5-Unit) Area plume were generally stable or decreasing in 2025. Concentrations of TCE detected in monitoring wells in the northern portion of the monitoring area have varied over the last several years, which is most likely due to D&D and excavation activities in the area that affect groundwater infiltration and groundwater removal from the area. Ten of the 15 groundwater extraction wells that were part of the Quadrant I Groundwater Investigative (5-Unit) Area were removed in 2021-2022 for the X-231B and 5-Unit excavation projects.

6.4 X-749A CLASSIFIED MATERIALS DISPOSAL FACILITY

The monitoring program for the X-749A Classified Materials Disposal Facility includes detection monitoring at the downgradient Gallia monitoring wells. None of the statistical control limits requiring Ohio EPA notification were exceeded in the X-749A downgradient wells in 2025.

6.5 QUADRANT II GROUNDWATER INVESTIGATIVE (7-UNIT) AREA

Concentrations of TCE detected in the Quadrant II Groundwater Investigative (7-Unit) Area plume were generally stable or decreasing in 2025. However, TCE is increasing in two wells that monitor the southern portion of the plume: X705-03G (34.9 µg/L) and X701-45G (39.4 µg/L).

6.6 X-701B FORMER HOLDING POND

Concentrations of TCE on the north edge of the X-701B plume at the X-230J7 Holding Pond (wells X230J7-01GA, X230J7-02GA, X230J7-03GA, and X230J7-04GA) stabilized or decreased in 2025. In 2020 through 2024, TCE concentrations had generally increased in these wells.

In 2025, TCE continued to be detected at concentrations above 100,000 µg/L in well X701-130G, which monitors the western end of the plume at the former east retention basin. TCE was detected at 120,000 µg/L, which is higher than the detections in 2019-2022 (46,100-73,000 µg/L). Historically, however, TCE was detected in this well at concentrations above 100,000 µg/L from 2014-2018 (DOE 2019).

TCE concentrations were stable in 2025 in three wells in the southern portion of the plume (X701-19G, X701-23G, and X701-79G). Although TCE was detected at 507 µg/L in well X701-79G in 2025, which increased compared to 2024 (319 µg/L), TCE was detected at concentrations over 400 µg/L in 2020 and 2021. TCE remained less than 5 µg/L in samples collected from well X701-19G, which monitors the southern edge of the plume. Well X701-19G was part of the groundwater plume in 2020-2022 with TCE detections between 5.06 and 9.43 µg/L.

Fluctuating concentrations of TCE in the monitoring wells within the X-701B plume may be due to the operational issues identified at the X-237 Groundwater Collection System that were addressed in 2023. With the approval of Ohio EPA, DOE replaced the vertical casing, screen, and pump in the north pumping well (X237-NPW) and the pump in the south pumping well (X237-SPW) in January 2023. With the maintenance for this system completed, TCE concentrations in some of the monitoring wells have changed in 2024-2025 when compared to data collected before this maintenance was completed.

No transuranics were detected in the X-701B wells in 2025. Uranium was detected at concentrations above the Ohio EPA drinking water standard for uranium (30 µg/L) in samples collected from three groundwater monitoring wells within the X-701B IRM area and one well immediately south of the former X-701B Holding Pond.

6.7 X-633 FORMER RECIRCULATING COOLING WATER COMPLEX

Two wells provide the routine monitoring for the X-633 Former Recirculating Cooling Water Complex. In 2025, chromium was detected above the FRL (100 µg/L) in well X633-07G and below the FRL in well X633-PZ04G.

Arsenic and nickel were added to the X-633 monitoring program in 2024. In 2025, arsenic was not detected in either well at concentrations above the FRL (10 µg/L). Nickel was detected in well X633-7G at 131 and 86.1 µg/L, which exceed the FRL (39.2 µg/L). Nickel was detected at concentrations below the FRL in well X633-PZ04G.

6.8 X-616 FORMER CHROMIUM SLUDGE SURFACE IMPOUNDMENTS

TCE has been slowly increasing in several X-616 monitoring wells over the past 25 years, with TCE detected above 5 µg/L in two Gallia wells and one Berea well for more than 10 years. Two years ago, in 2024, TCE increased to above 5 µg/L in two additional Gallia wells. Each of the wells that contain TCE at concentrations above 5 µg/L are located west (downgradient) of the X-616 Former Chromium Sludge Surface Impoundments. These results indicated that a potential TCE plume in the Gallia groundwater was present on the west side of the X-616 Former Chromium Sludge Surface Impoundments.

Additional sampling was completed in 2025 to further investigate the potential plume identified in 2024. Sampling frequencies were increased to quarterly in the five wells on the west side of the former surface impoundments in the area of the potential Gallia groundwater plume, as well as one Gallia well southwest of the potential plume area. Four additional wells that are not part of the routine monitoring program were also sampled in 2025.

Results of sampling completed in 2025 did not indicate that a plume is present on the west side of the former surface impoundments. TCE continued to be detected in the wells; however, TCE concentrations in two of the four Gallia wells had decreased to less than 5 µg/L by the fourth quarter of 2025. The definition of the plume perimeter (and PRG) is 5 µg/L.

In 2026, DOE plans to continue quarterly monitoring of five wells on the west side of the former impoundments and two of the wells that are not part of the routine monitoring program.

In 2025, chromium was detected in well X616-05G at 917 µg/L, which is above the PRG (100 µg/L). Chromium is routinely detected at concentrations above the PRG in samples collected from this well.

6.9 X-740 FORMER WASTE OIL HANDLING FACILITY

TCE was detected above the PRG (5 µg/L) in two of the X-740 monitoring wells within the restored excavation area: X740-26B and X740-27G. Well X740-26B is located in the area where TCE was highest prior to excavation of the area. Well X740-27G is located approximately 200 ft south-southwest of well X740-26B. In accordance with the May 2024 IGWMP, the other X-740 wells within the restored excavation area (X740-24B, X740-25G, X740-28G, X740-29G, and X740-30G) were not sampled in 2025. These wells require sampling every five years and will be sampled in 2028.

Of the three wells west of the excavation area, TCE is routinely detected in one well (X740-11G). In 2025, TCE was detected at 5.24 µg/L. No VOCs were detected in wells X740-12B and X740-13G, which is consistent with previous data for these wells.

6.10 X-530A SWITCHYARD COMPLEX

One well at the X-530A Switchyard Complex is sampled for VOCs and chromium. TCE was detected at 14.8 µg/L, which exceeds the FRL (5 µg/L). Chromium was detected at 21.6 µg/L, which is less than the FRL (100 µg/L).

6.11 X-744N, P, AND Q WAREHOUSES

One well at the X-744N, P, and Q Warehouses is sampled for cobalt and nickel. Cobalt and nickel were both detected above the FRLs in the sample collected in 2025.

6.12 X-611A FORMER LIME SLUDGE LAGOONS

Six wells at the X-611A Former Lime Sludge Lagoons are sampled for beryllium and chromium. Beryllium and chromium were not detected in the X-611A wells at concentrations above the PRGs in 2025.

6.13 X-735 LANDFILLS

The monitoring program at the X-735 Landfills includes corrective measures monitoring for Gallia wells and detection monitoring for Berea wells. As required by the corrective measures monitoring program, concentrations of three metals (cobalt, mercury, and nickel) and five indicator parameters (alkalinity, chloride, sodium, sulfate, and total dissolved solids) detected in downgradient Gallia wells are compared to concentration limits based on drinking water standards or site background concentrations. None of the concentration limits were exceeded in 2025.

The detection monitoring program for X-735 Berea wells continued in 2025. None of the statistical control limits requiring Ohio EPA notification were exceeded in the X-735 downgradient Berea wells in 2025.

6.14 X-734 LANDFILLS

No significant changes were noted in concentrations of VOCs or metals detected in wells at the X-734 Landfills during 2025.

6.15 X-533 FORMER SWITCHYARD COMPLEX

Three wells at the X-533 Former Switchyard Complex are sampled for cadmium, chromium, cobalt, and nickel. In 2025, cadmium and nickel were detected in each well at concentrations exceeding the FRLs.

Chromium and cobalt were added to the X-533 monitoring program beginning in the fourth quarter of 2024. In 2025, cobalt was detected in each well at concentrations ranging from 19.6 to 109 µg/L, which are above the FRL (0.60 µg/L). Chromium was not detected at concentrations above the FRL in other X-533 monitoring wells.

6.16 X-230J6 NORTHEAST HOLDING POND AND NORTHEAST DRAINAGE DITCH

Wells F-07G and F-08B monitor the Northeast Drainage Ditch. Samples from these wells are analyzed for selected metals (arsenic, thallium, and vanadium), uranium, and isotopic uranium (uranium-233/234, uranium-235/236, and uranium-238). Uranium and uranium-238 were detected in the samples from well F-07G at levels exceeding the respective FRLs. None of the monitoring parameters were detected at levels above the FRLs in well F-08B.

Well X230J6-01G monitors the X-230J6 Northeast Holding Pond and is sampled for cobalt. In 2025, cobalt was detected in the sample collected from well X230J6-01G at 2.99 and 2.85 µg/L (regular and duplicate samples), which exceeds the FRL (0.60 µg/L).

6.17 X-342 FLUORINE BUILDINGS

Three wells (F-09G, X342C-01G, and X745F-01G) monitor the area around the X-342 Fluorine Buildings and are sampled for cobalt. In 2025, cobalt was detected in each of the wells at concentrations that exceeded the FRL (0.60 µg/L).

6.18 X-630 FORMER RECIRCULATING COOLING WATER COMPLEX

One well monitors the X-630 Former Recirculating Cooling Water Complex for arsenic and chromium. Neither of these metals were detected above the FRL in the sample collected in 2025.

6.19 SURFACE WATER

In 2025, TCE and other VOCs commonly detected in the PORTS groundwater plumes were detected in samples collected from the Southwestern Drainage Ditch at UND-SW01 at concentrations typical for this location. VOCs were not detected in the samples collected from the Southwestern Drainage Ditch at UND-SW02.

TCE is routinely detected in samples collected from the East Drainage Ditch and some of the monitoring locations on Little Beaver Creek (LBC-SW01 and LBC-SW02). In 2025, TCE was detected at a maximum concentration of 62.7 µg/L in the first quarter sample collected from the East Drainage Ditch (EDD-SW01). TCE was not detected in three of the four samples collected in 2025 at LBC-SW03 (the furthest downstream sampling location on Little Beaver Creek sampled in 2025). The fourth sample contained TCE at an estimated concentration less than 0.5 µg/L.

No transuranics were detected in the surface water samples collected during 2025.

Technetium-99 is occasionally detected in samples collected from the East Drainage Ditch and Little Beaver Creek. These detections are within the historical range of technetium-99 detected in Little Beaver Creek, and are less than the DOE derived concentration standard for technetium-99 (390,000 pCi/L) (DOE 2022b). Technetium-99 was detected at levels up to 26.9 pCi/L in samples collected from the East Drainage Ditch and Little Beaver Creek. These detections are less than 0.007% of the DOE derived concentration standard for technetium-99 (390,000 pCi/L) (DOE 2022b).

The concentrations of uranium detected in the surface water samples were less than 0.5% of the DOE derived concentration standards for uranium isotopes (1200 pCi/L for uranium-233/234, 1300 pCi/L for uranium-235, and 1400 pCi/L for uranium-238) (DOE 2022b). The detections of uranium and uranium isotopes in surface water during 2025 were consistent with sampling results for previous years (DOE 2021a, DOE 2022a, DOE 2023a, DOE 2024a, DOE 2025a).

6.20 WATER SUPPLY

The only VOCs detected in water supply samples in 2025 were trihalomethanes, which are common residuals in treated drinking water. The total concentration of trihalomethanes detected in drinking water samples in 2025 was less than the Ohio EPA drinking water standard (80 µg/L).

Uranium, uranium-233/234, and uranium-238 were detected in samples collected from the PORTS water supply (RES-012) and one residential sampling location in 2025. The maximum concentration of uranium, 1.66 µg/L, is less than the Ohio EPA drinking water standard for uranium (30 µg/L). Groundwater at PORTS is not used for drinking water and is not hydraulically connected to the Scioto River Valley buried aquifer.

No transuranics or technetium-99 were detected in any of the water supply samples collected in 2025.

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FIGURES

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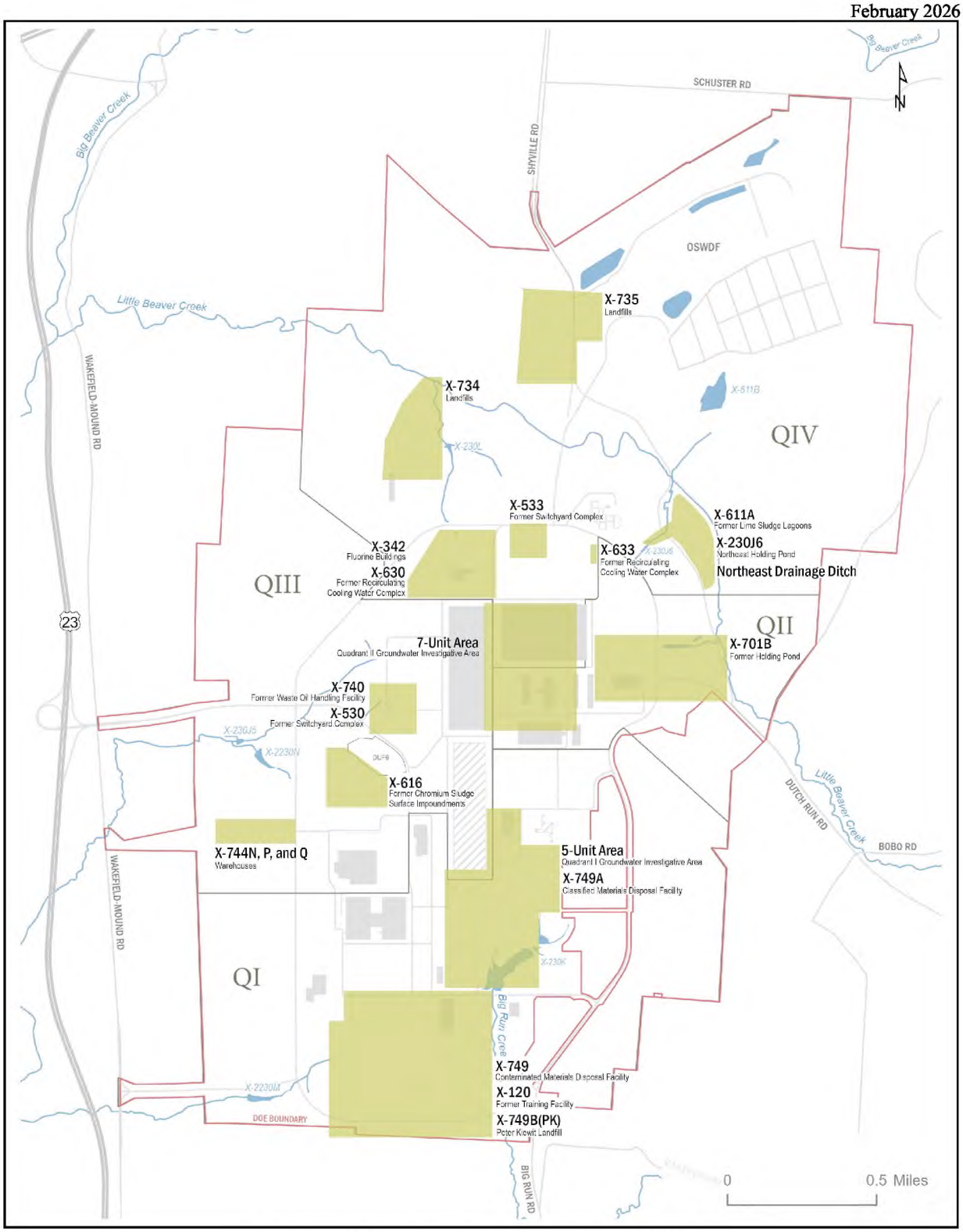


Figure 1. PORTS groundwater monitoring areas.

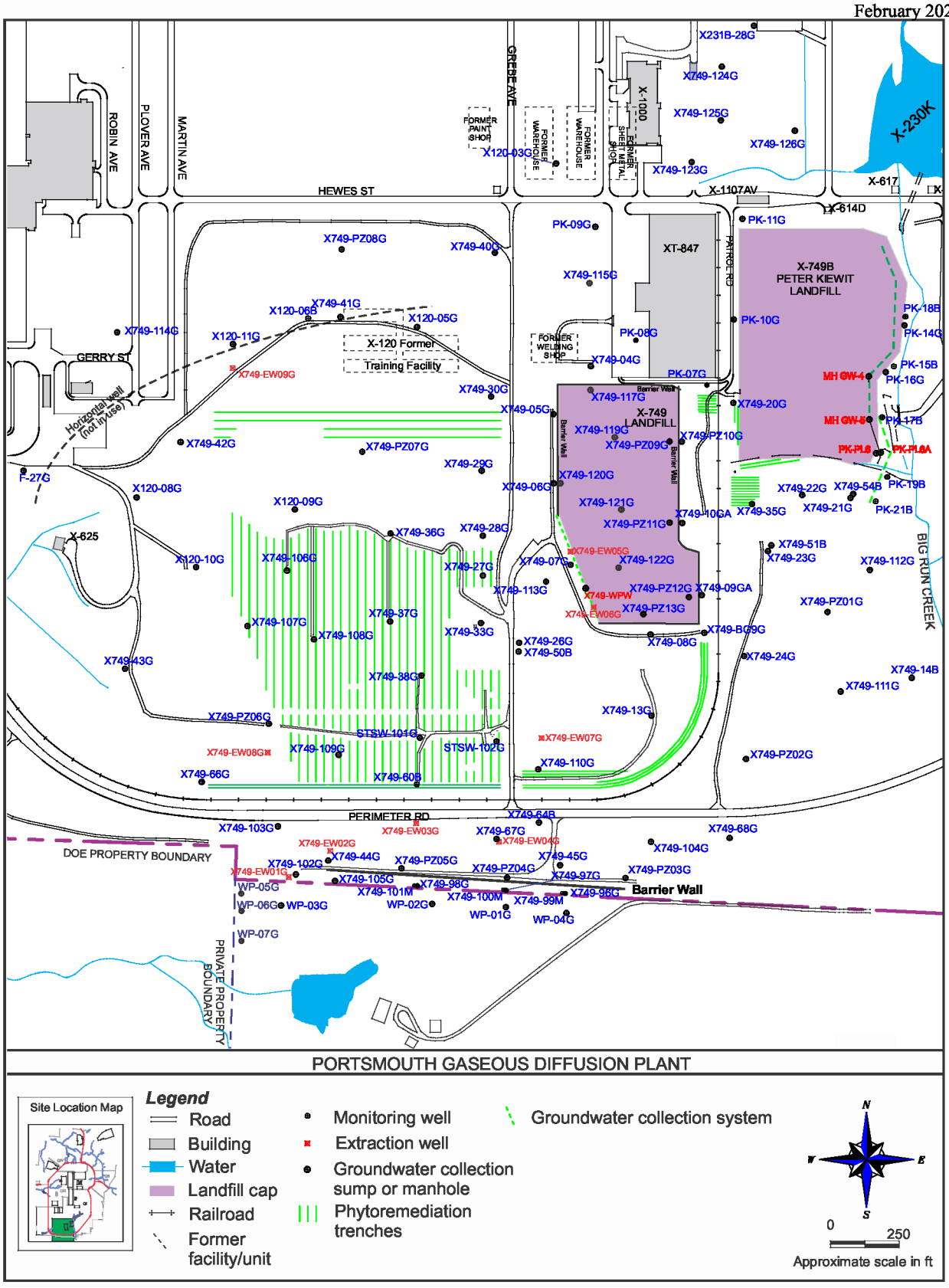


Figure 2. X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility and PK Landfill monitoring wells.

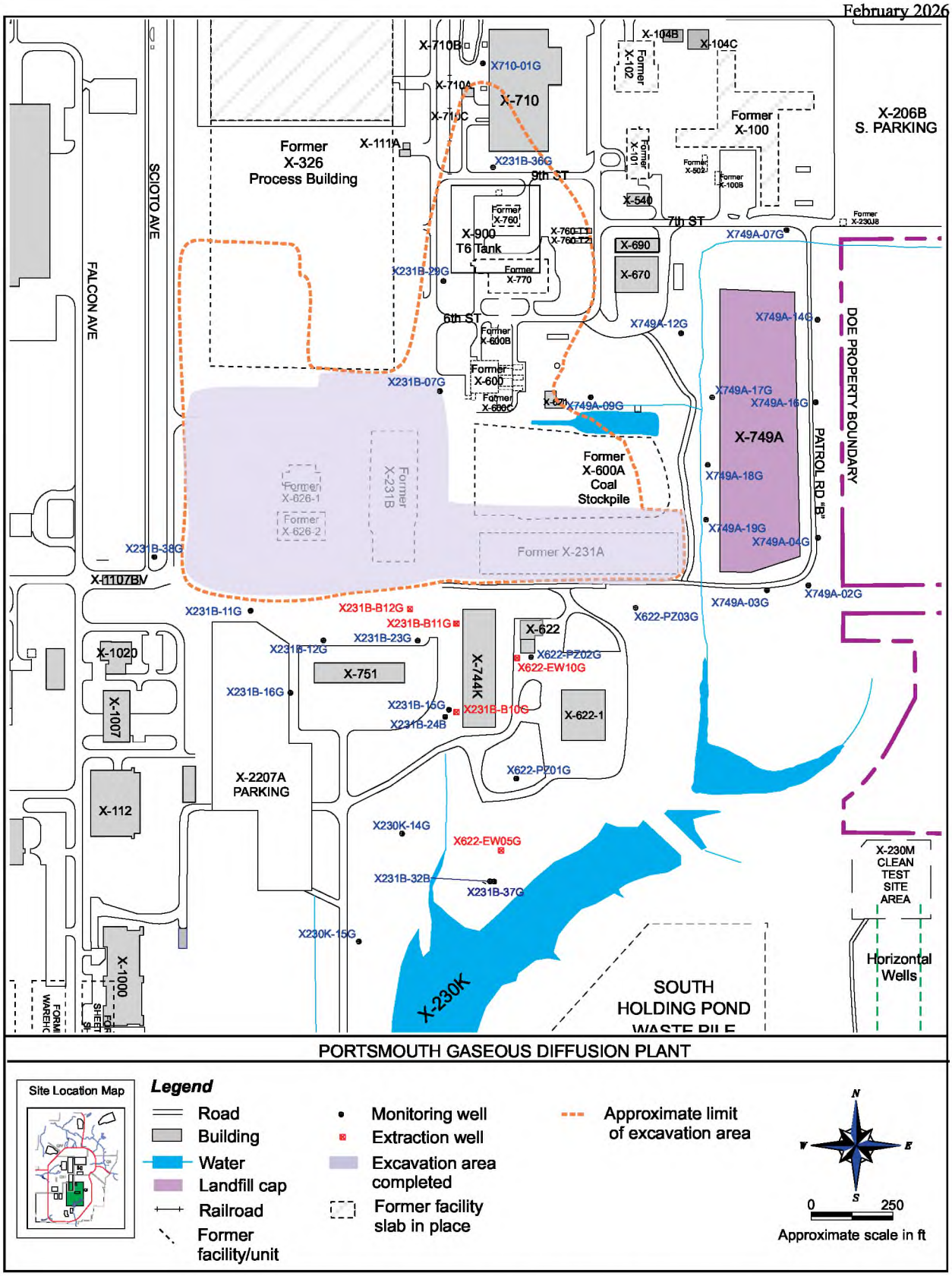


Figure 3. Quadrant I Groundwater Investigative (5-Unit) Area and X-749A Classified Materials Disposal Facility monitoring wells.

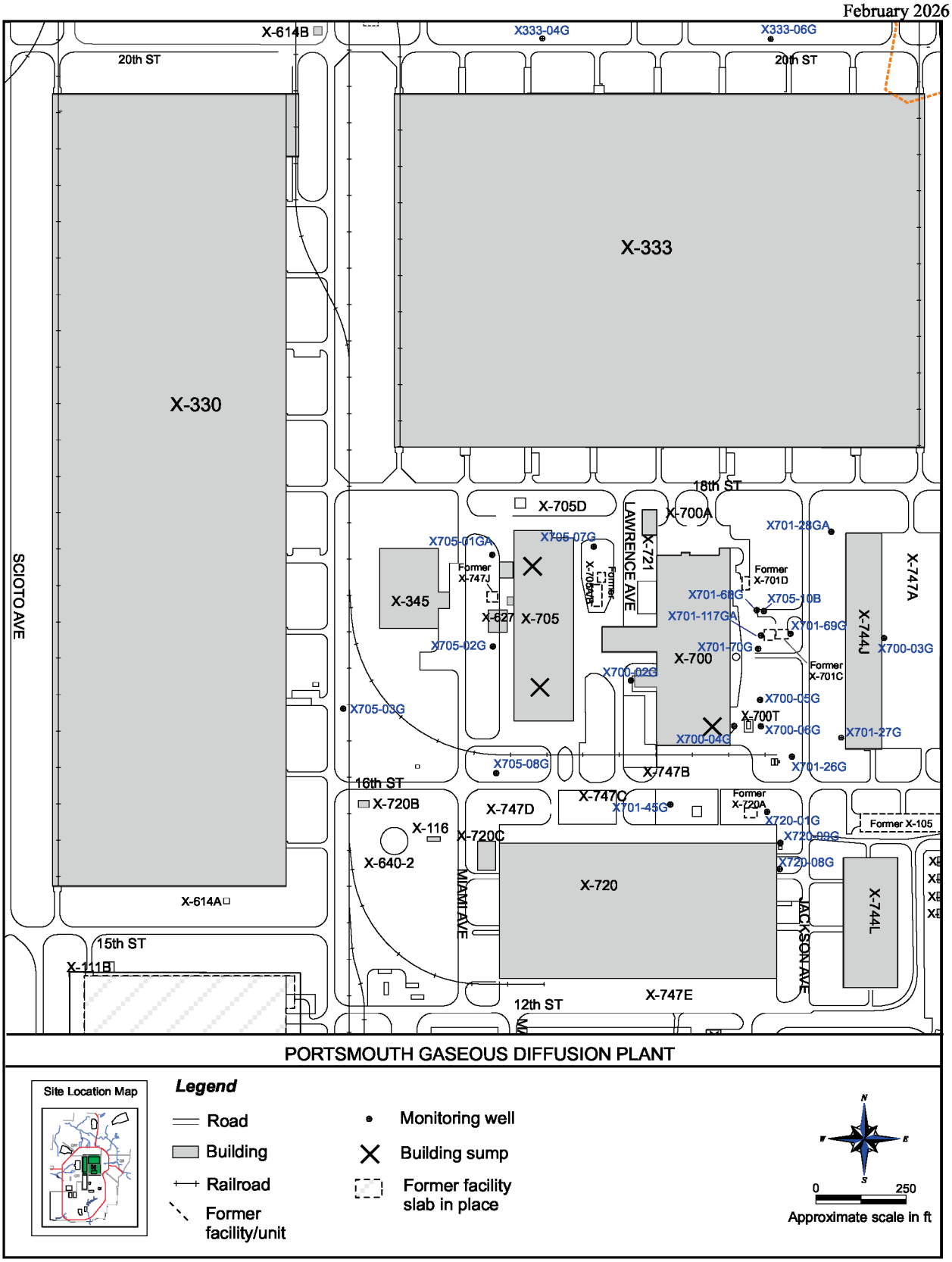


Figure 4. Quadrant II Groundwater Investigative (7-Unit) Area monitoring wells.

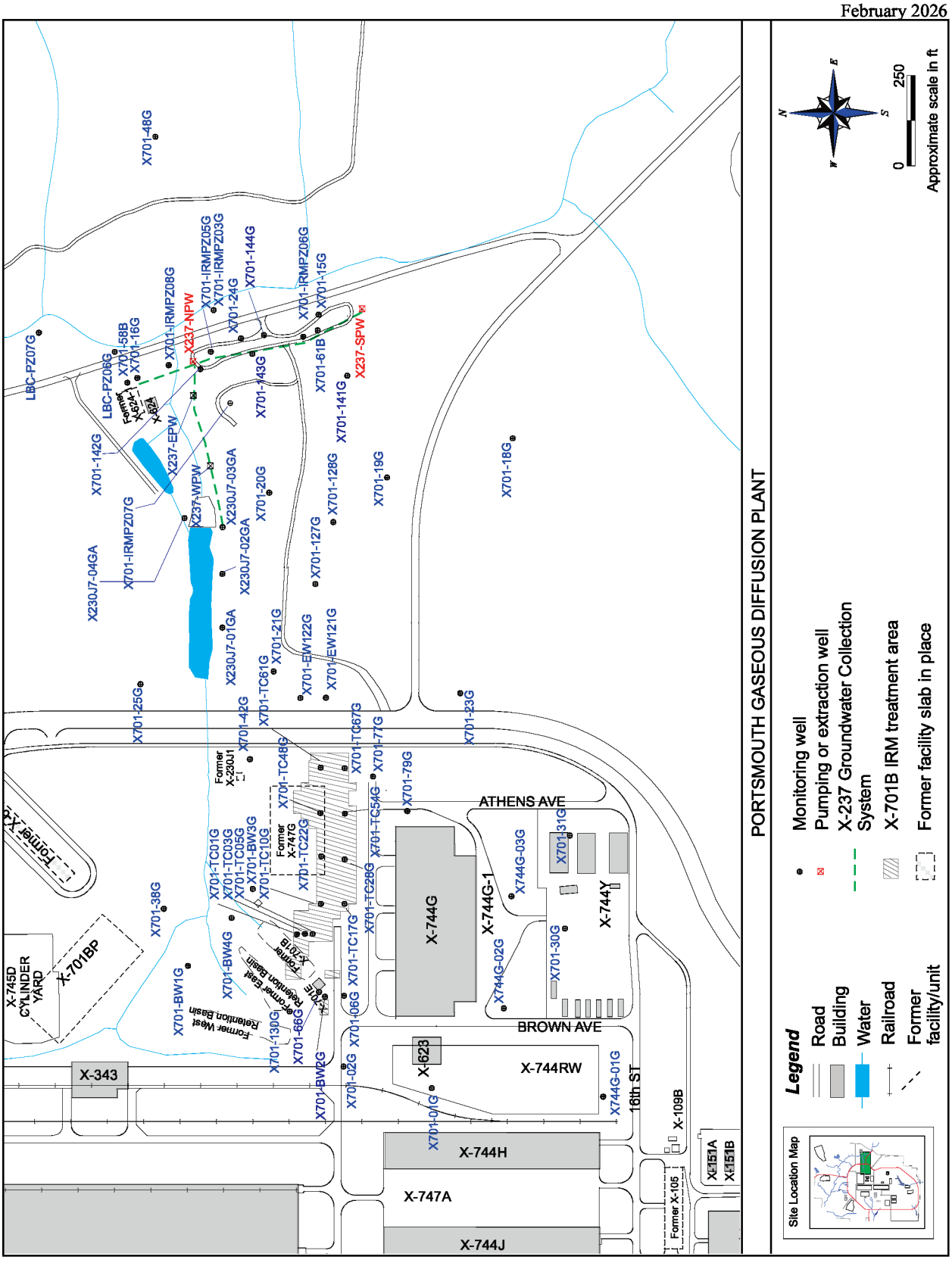


Figure 5. X-701B Former Holding Pond monitoring wells.

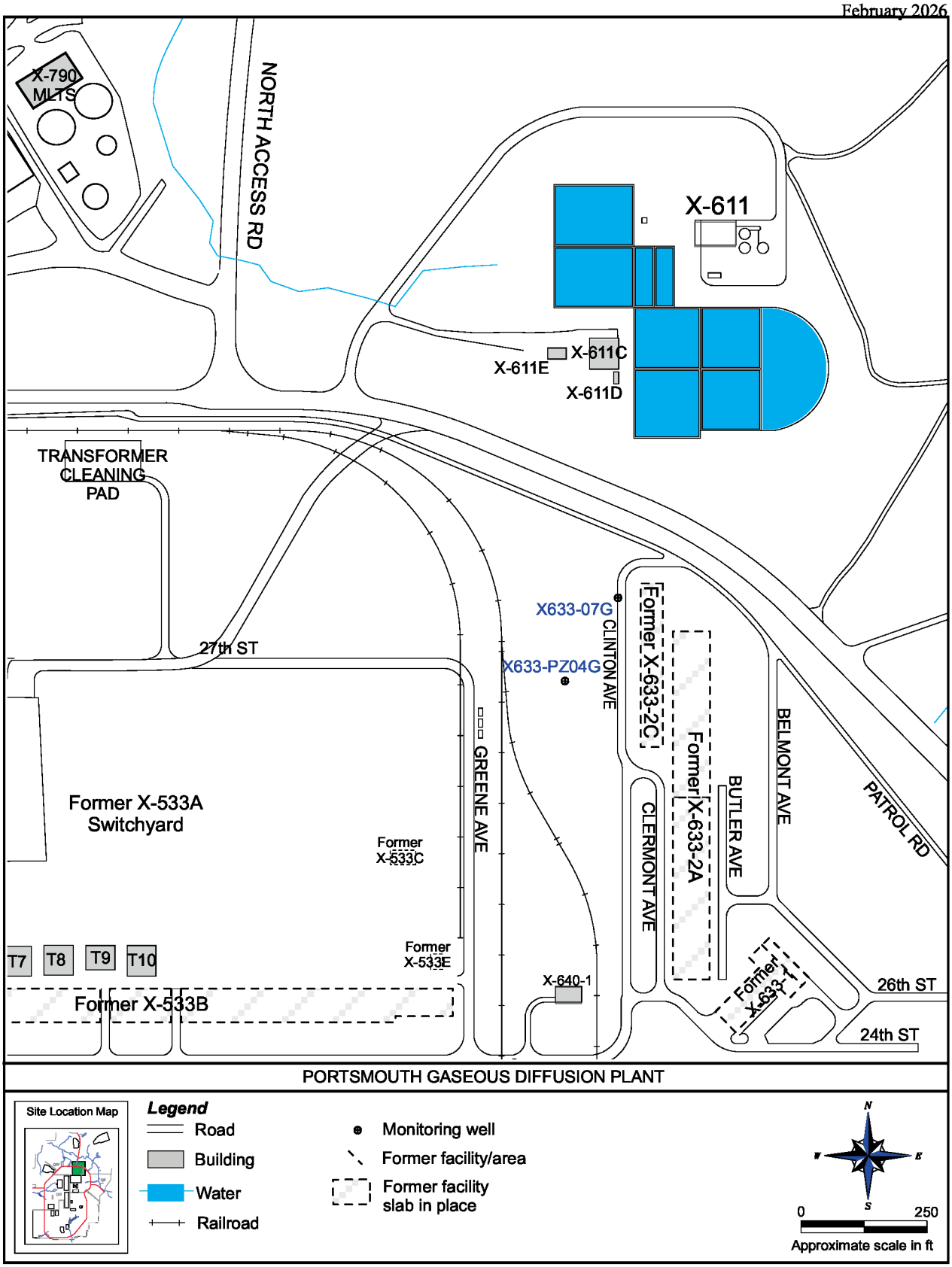


Figure 6. X-633 Former Recirculating Cooling Water Complex monitoring wells.

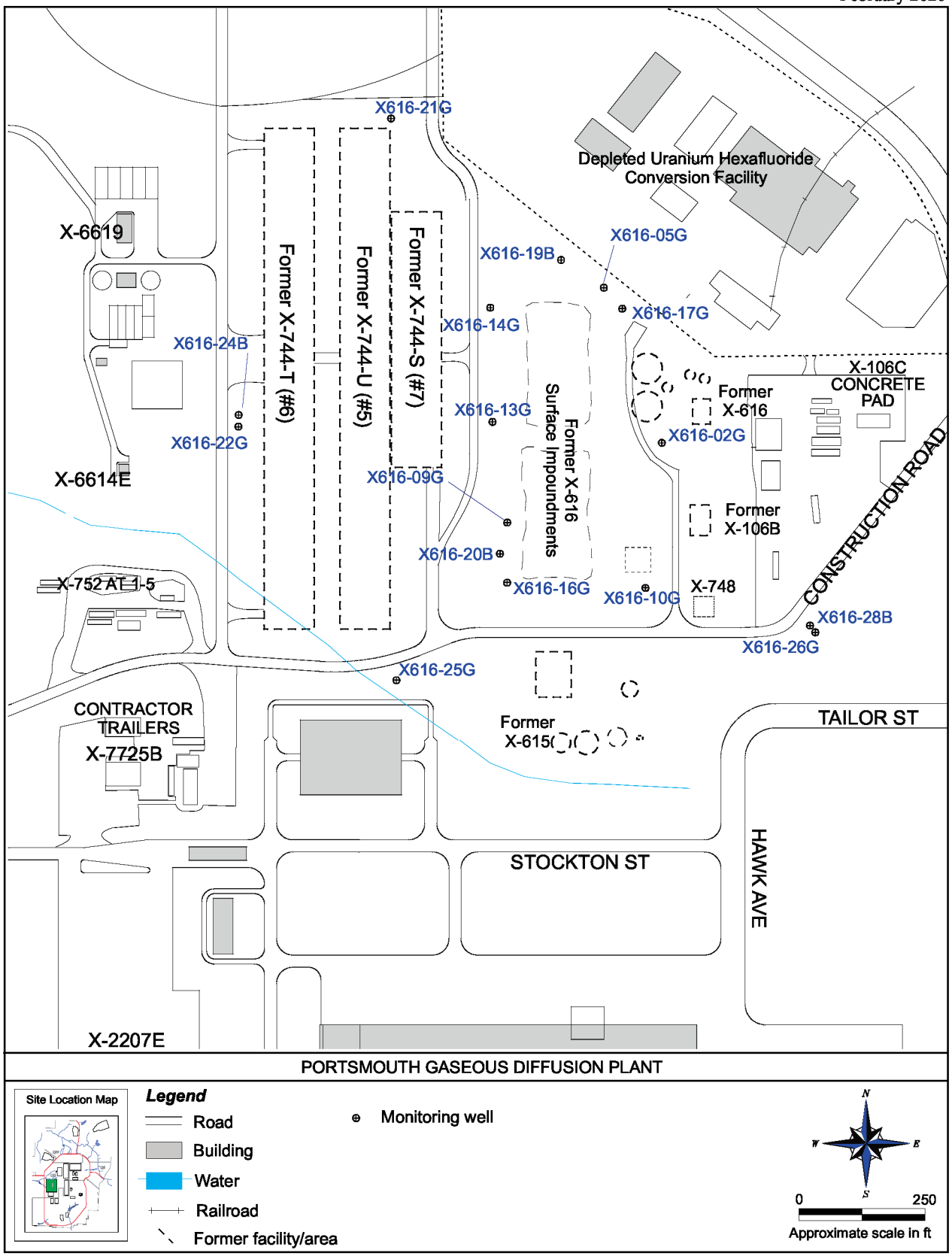


Figure 7. X-616 Former Chromium Sludge Surface Impoundments monitoring wells.

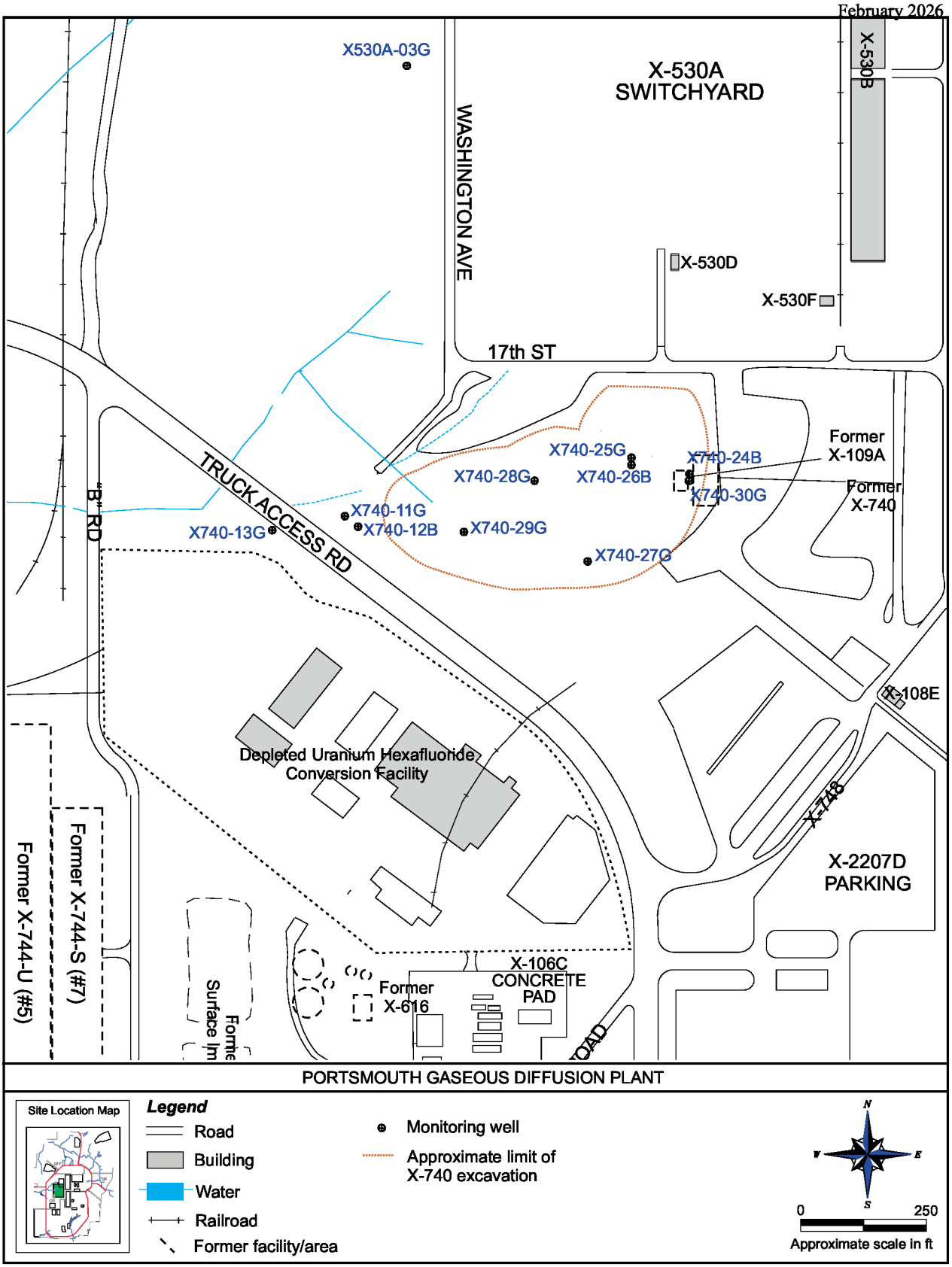


Figure 8. X-740 Former Waste Oil Handling Facility and X-530A Switchyard Complex monitoring wells.

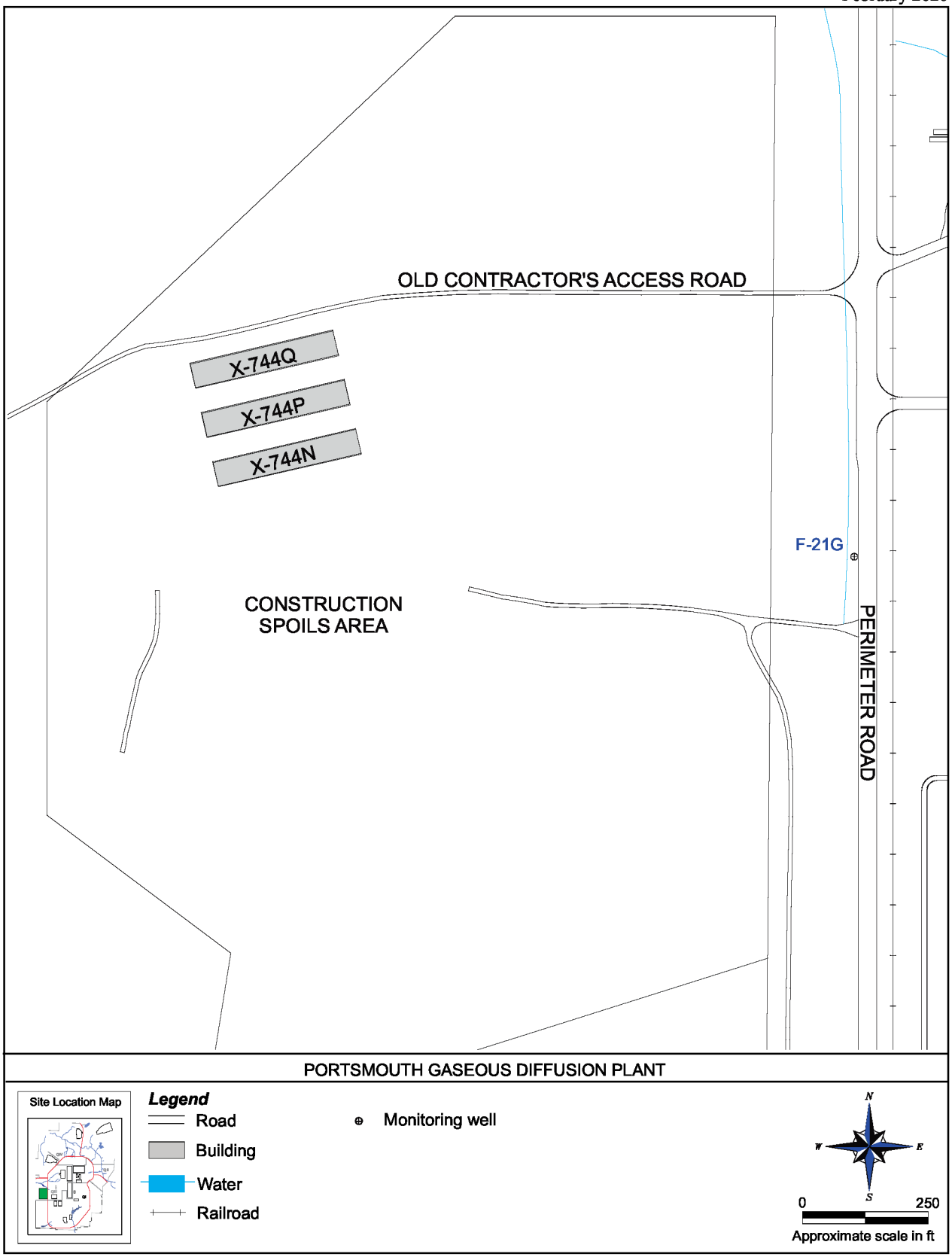


Figure 9. X-744N, P, and Q Warehouses monitoring well.

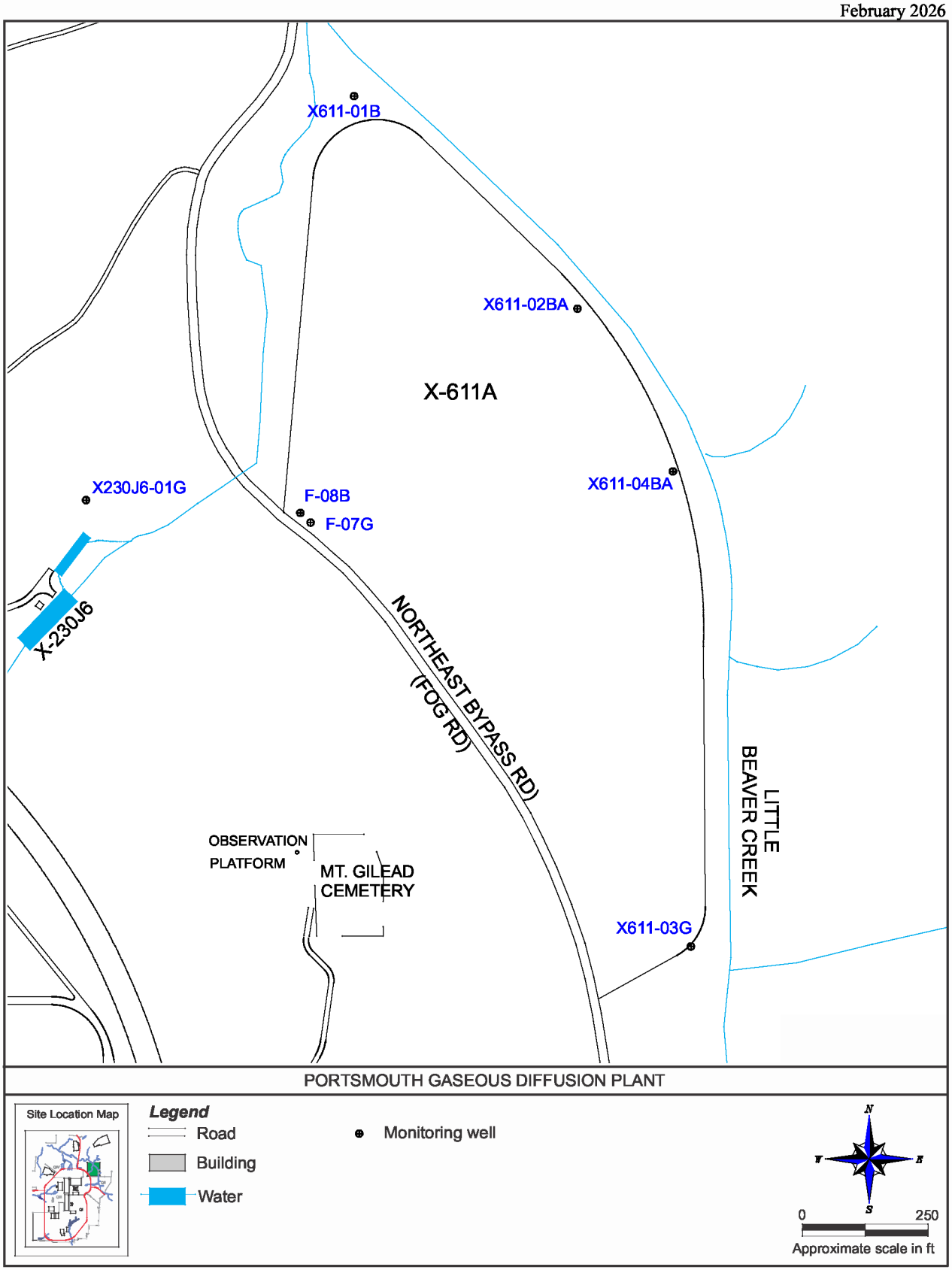


Figure 10. X-611A Former Lime Sludge Lagoons, X-230J6 Northeast Holding Pond, and Northeast Drainage Ditch monitoring wells.

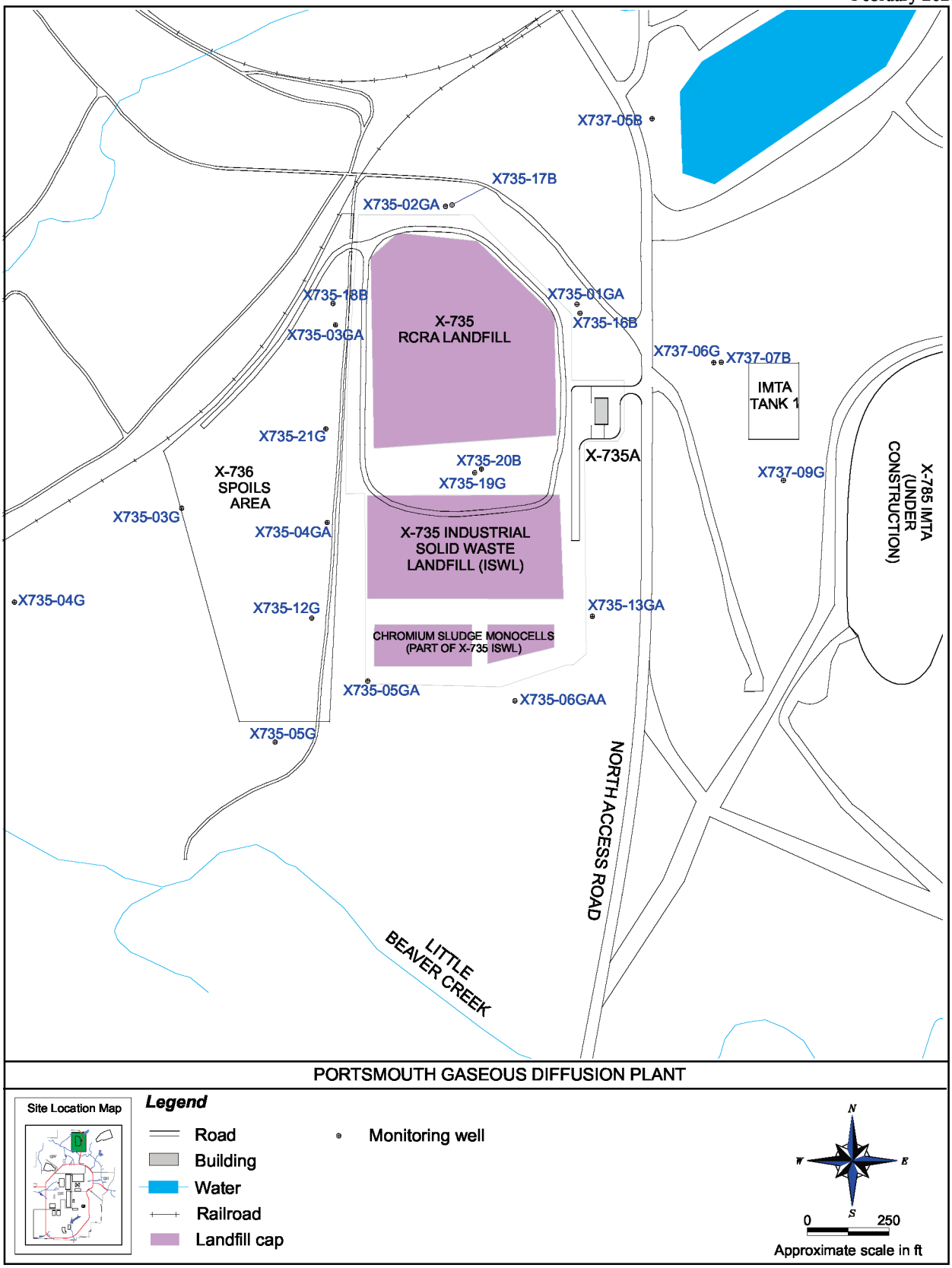


Figure 11. X-735 Landfills monitoring wells.

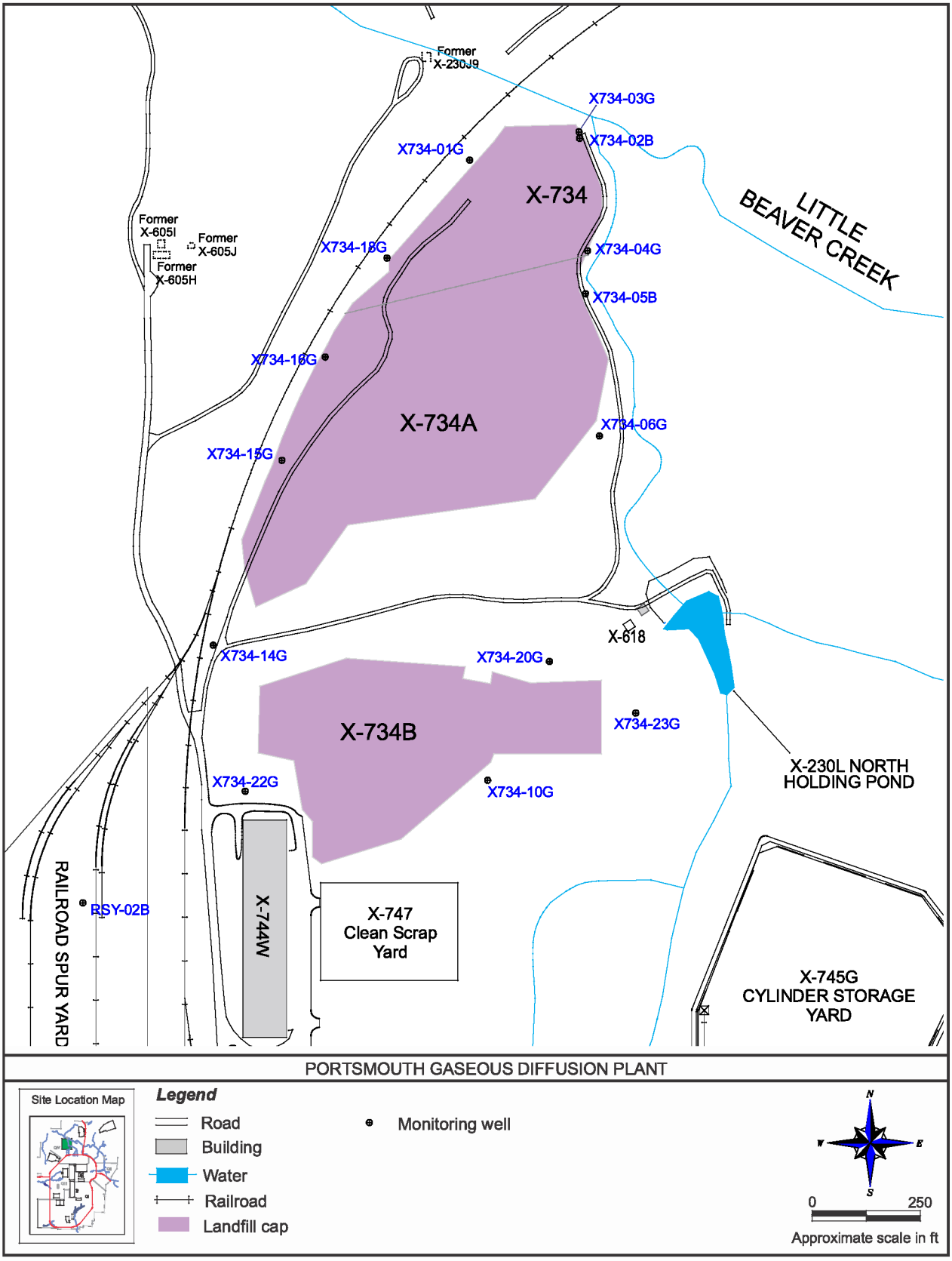


Figure 12. X-734 Landfills monitoring wells.

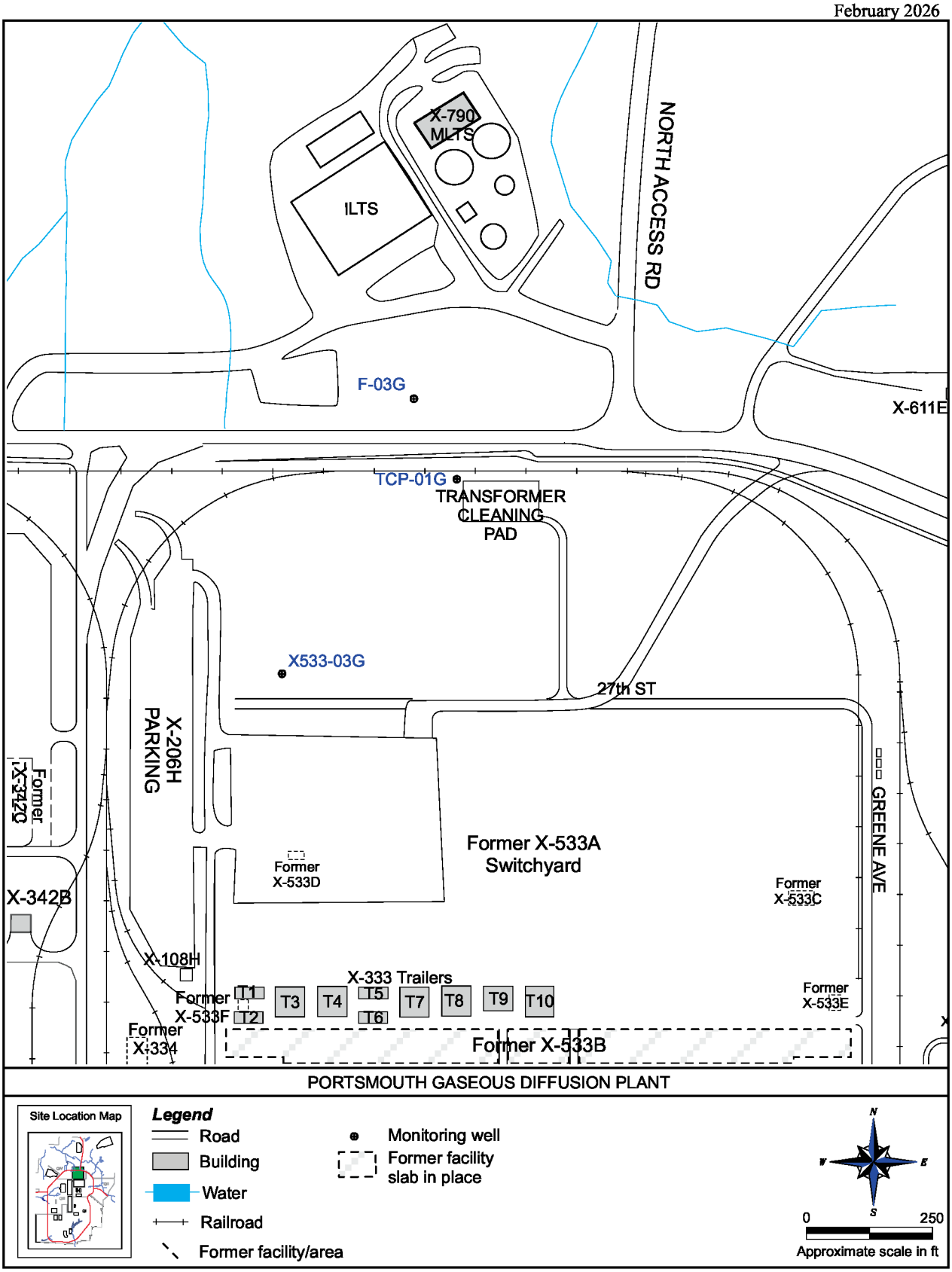


Figure 13. X-533 Former Switchyard Complex monitoring wells.

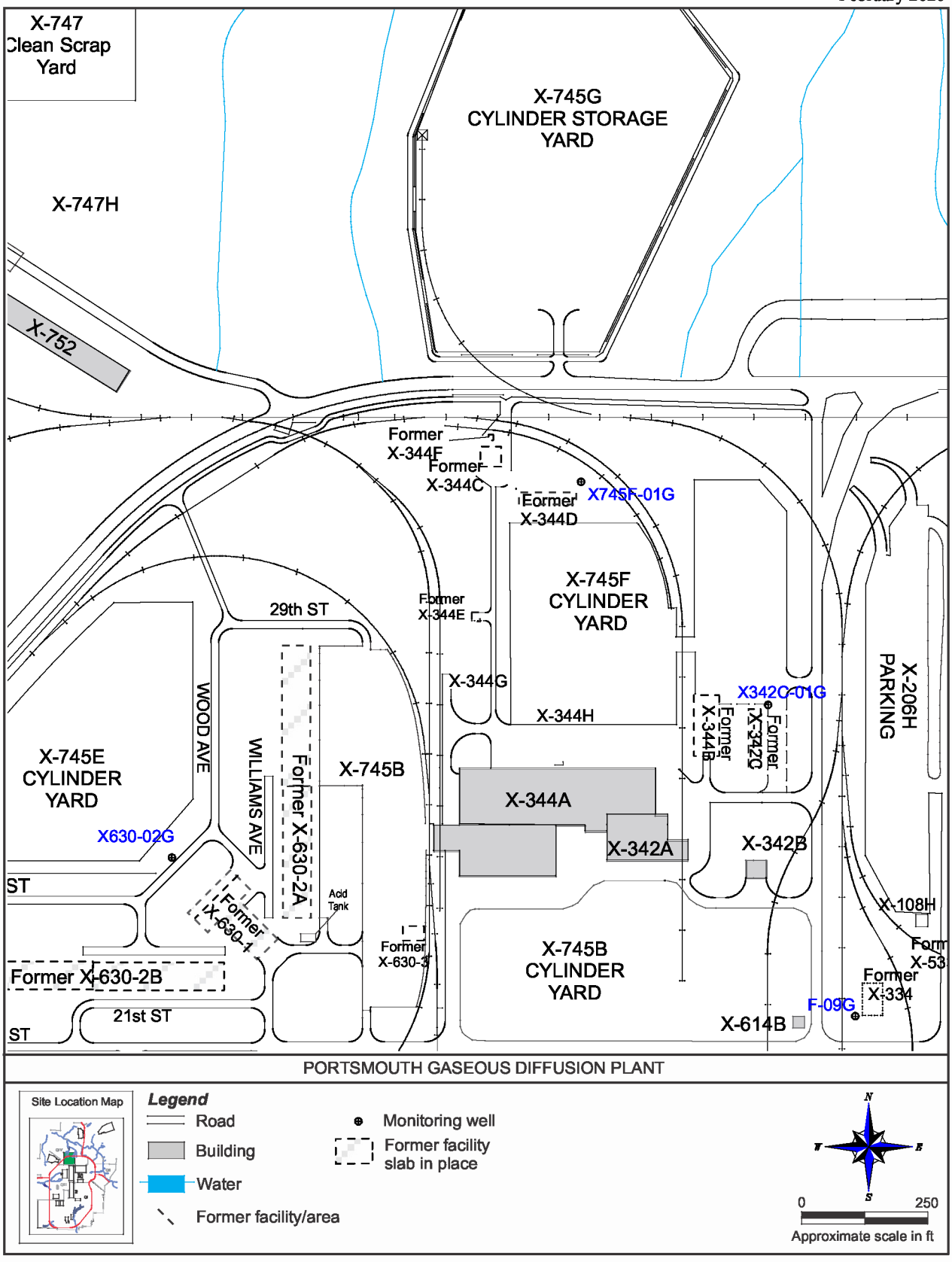


Figure 14. X-342 Fluorine Buildings and X-630 Former Recirculating Cooling Water Complex monitoring wells.

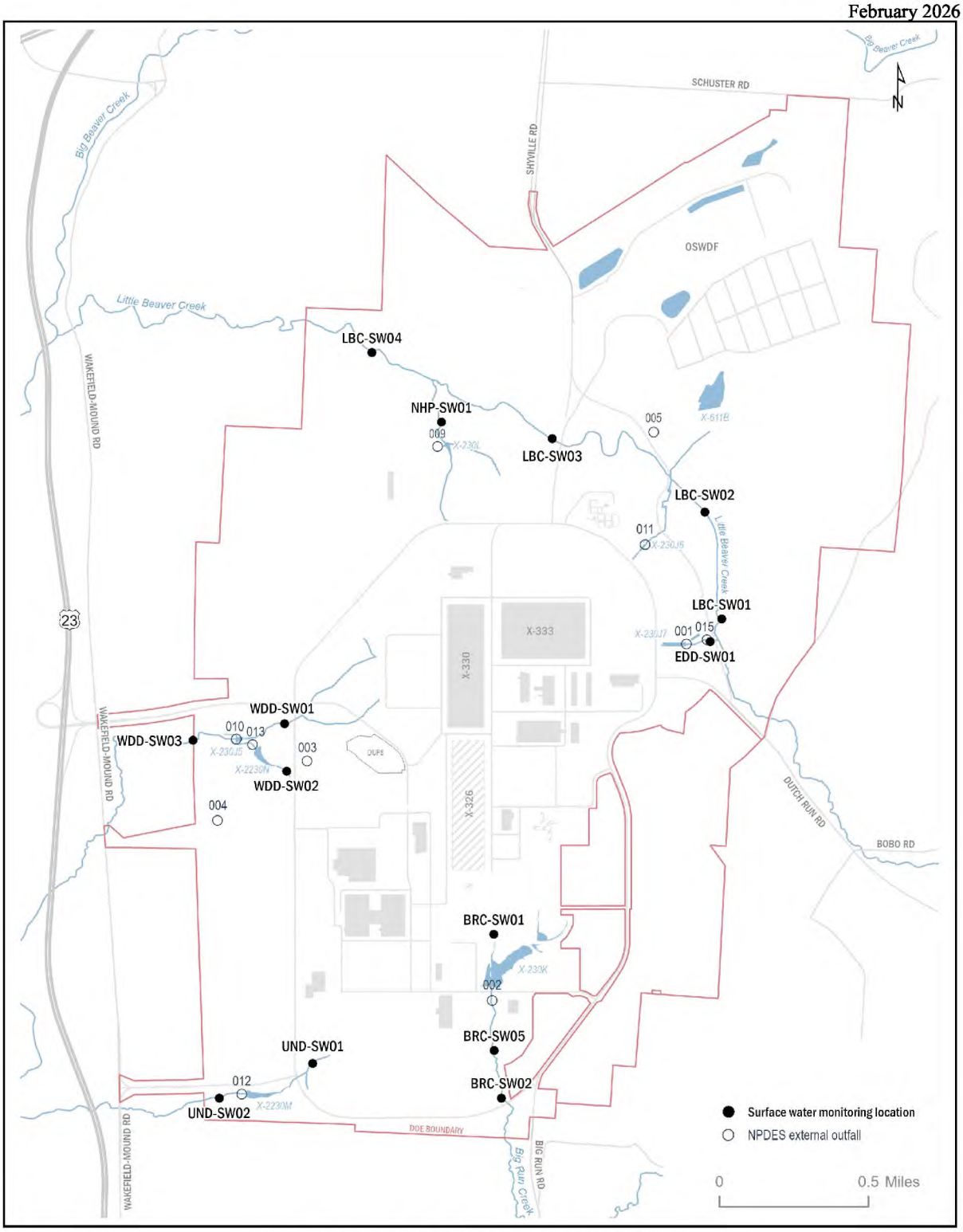


Figure 15. Surface water sampling points.

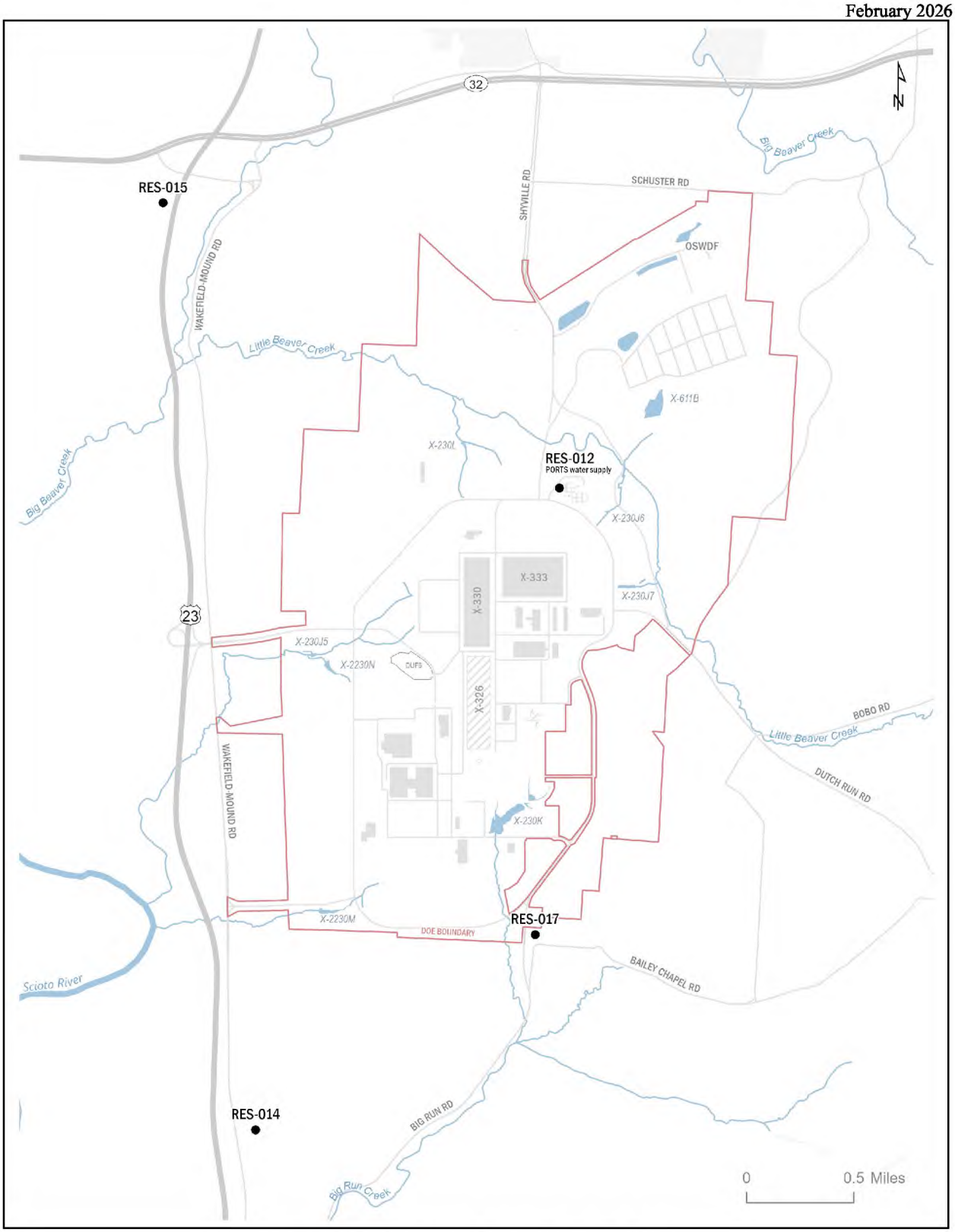


Figure 16. Water supply monitoring locations.

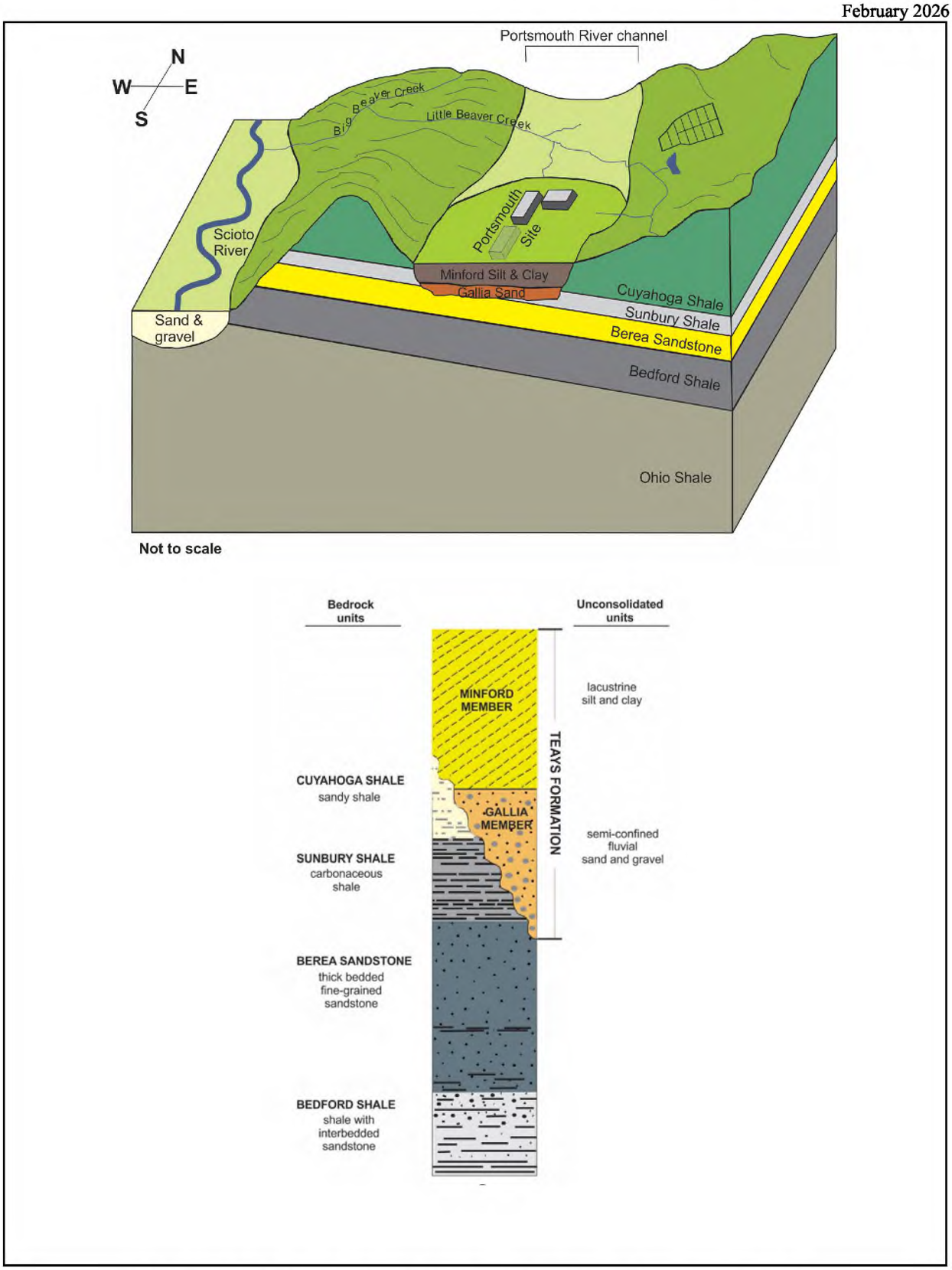


Figure 17. Schematic block diagram and generalized stratigraphy at PORTS.

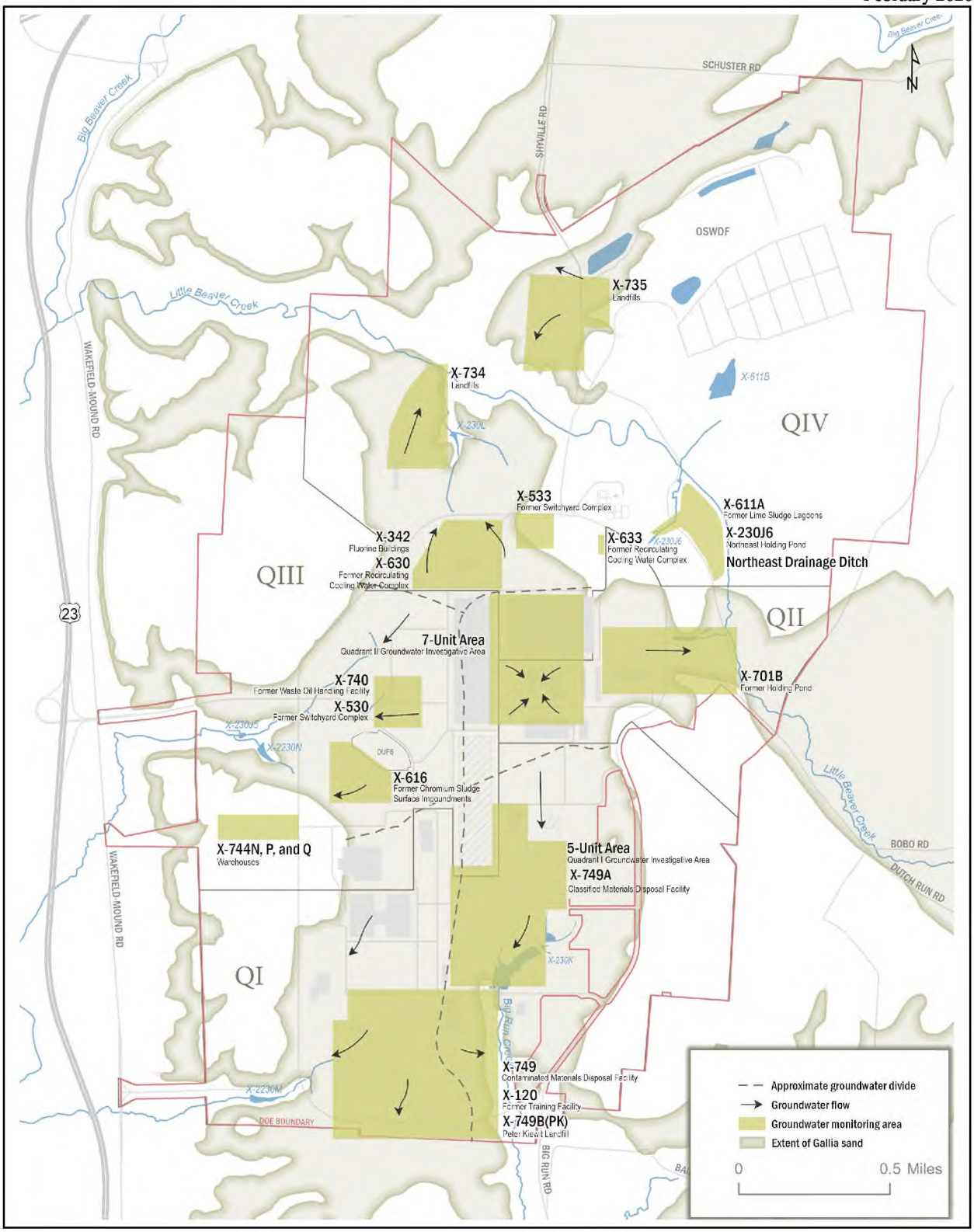


Figure 18. Generalized Gallia groundwater flow and divides at PORTS.

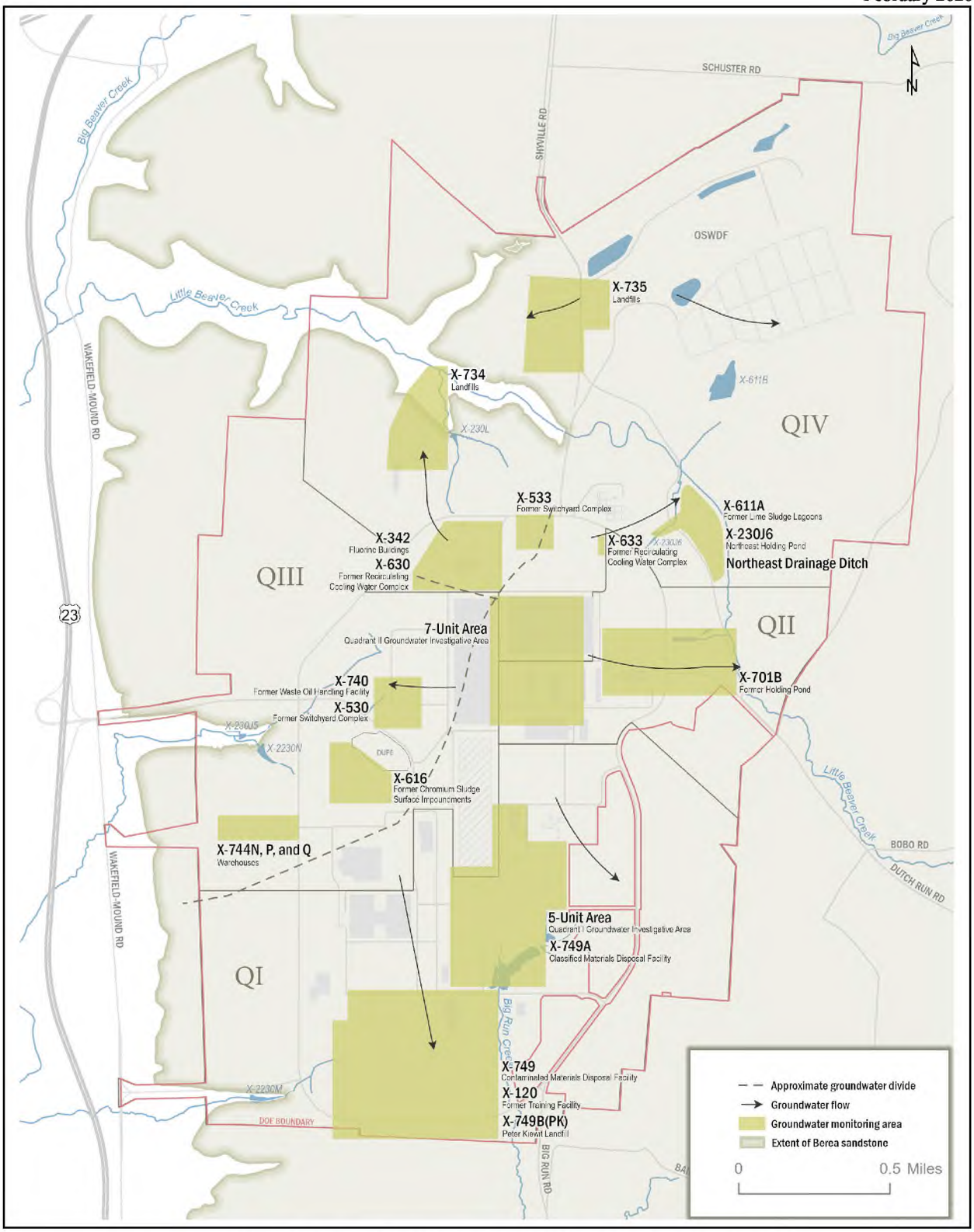
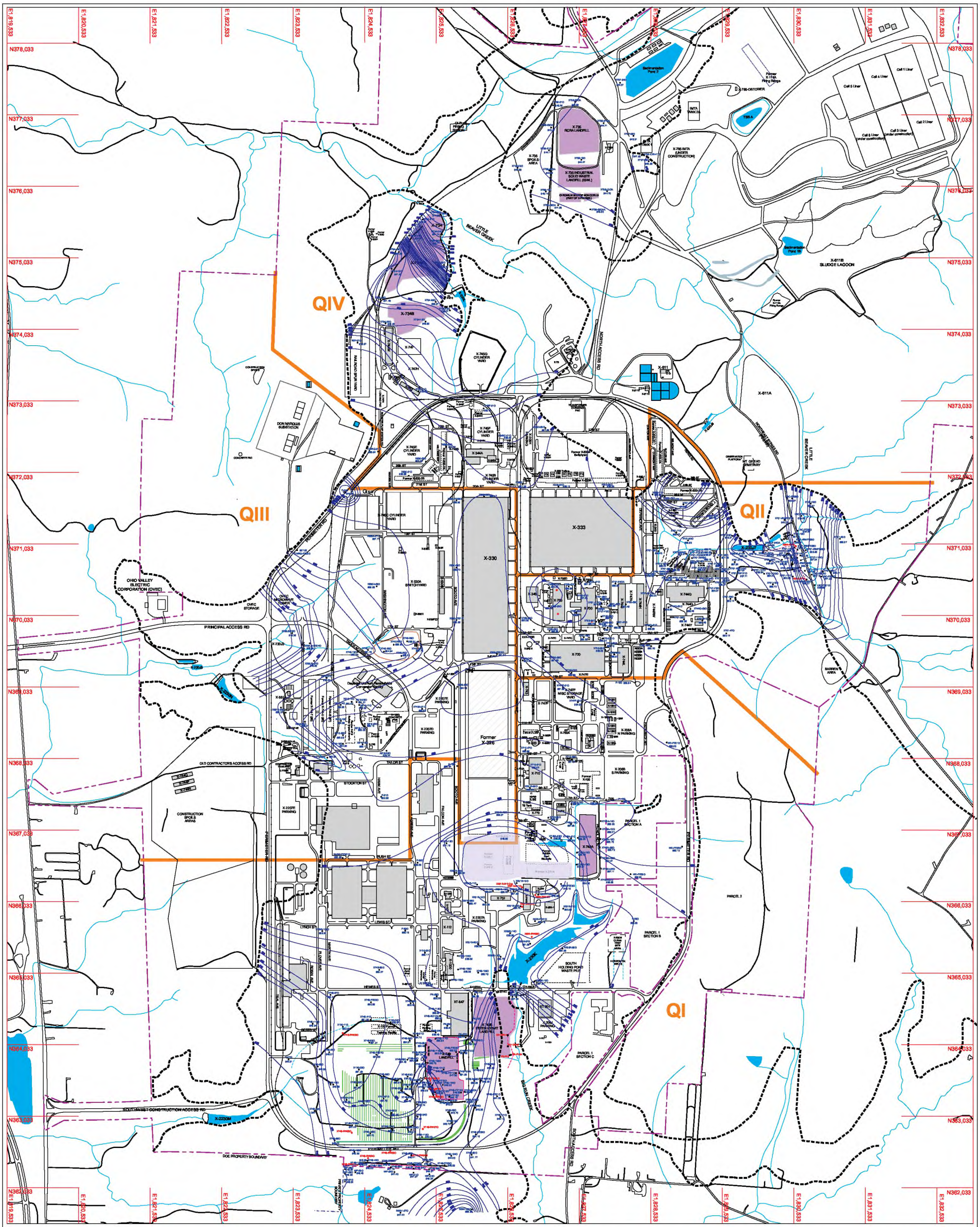


Figure 19. Generalized Berea groundwater flow and divides at PORTS.


QIV
QIII
QII
QI
LITTLE BEAVER CREEK
BIG RUN CREEK
PERIMETER RD
PRINCIPAL ACCESS RD
OLD CONTRACTORS ACCESS RD
SOUTHWEST CONSTRUCTION ACCESS RD
DOE PROPERTY BOUNDARY
PERIMETER ROAD
X-735 RCRA LANDFILL
X-735 INDUSTRIAL SOLID WASTE LANDFILL (ISWL)
X-735 SPOILS AREA
X-735 IMTA (UNDER CONSTRUCTION)
X-611B SLUDGE LAGOON
X-611A
X-333
X-330
X-326
X-720
X-734B
X-740
X-745G CYLINDER YARD
X-745F CYLINDER YARD
X-745E CYLINDER YARD
X-745C CYLINDER YARD
X-745S CYLINDER YARD
X-745A
X-744Q
X-744Y
X-744V
X-744T
X-747F MISC STORAGE YARD
X-747G
X-747H
X-749B PEFORS LANDFILL
X-749A PEFORS LANDFILL
X-749 LANDFILL
X-701B IRM
X-705A N PARKING
X-705B S PARKING
X-2007E PARKING
X-2007D PARKING
X-2207E PARKING
X-2207A PARKING
X-2205A PARKING
X-530A SWITCHYARD
X-795
X-795 IMTA (UNDER CONSTRUCTION)
X-700
X-710
X-770
X-344A
X-344E
X-344G
X-344J
X-344K
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DON MARQUIS SUBSTATION
OHIO VALLEY ELECTRIC CORPORATION (OVEC)
OVEC MICROWAVE TOWER
OVEC STORAGE
CONSTRUCTION SPOILS AREAS
Former X-326
Former X-116A Firing Range
Former X-120 Boneyard
Former X-120A Boneyard
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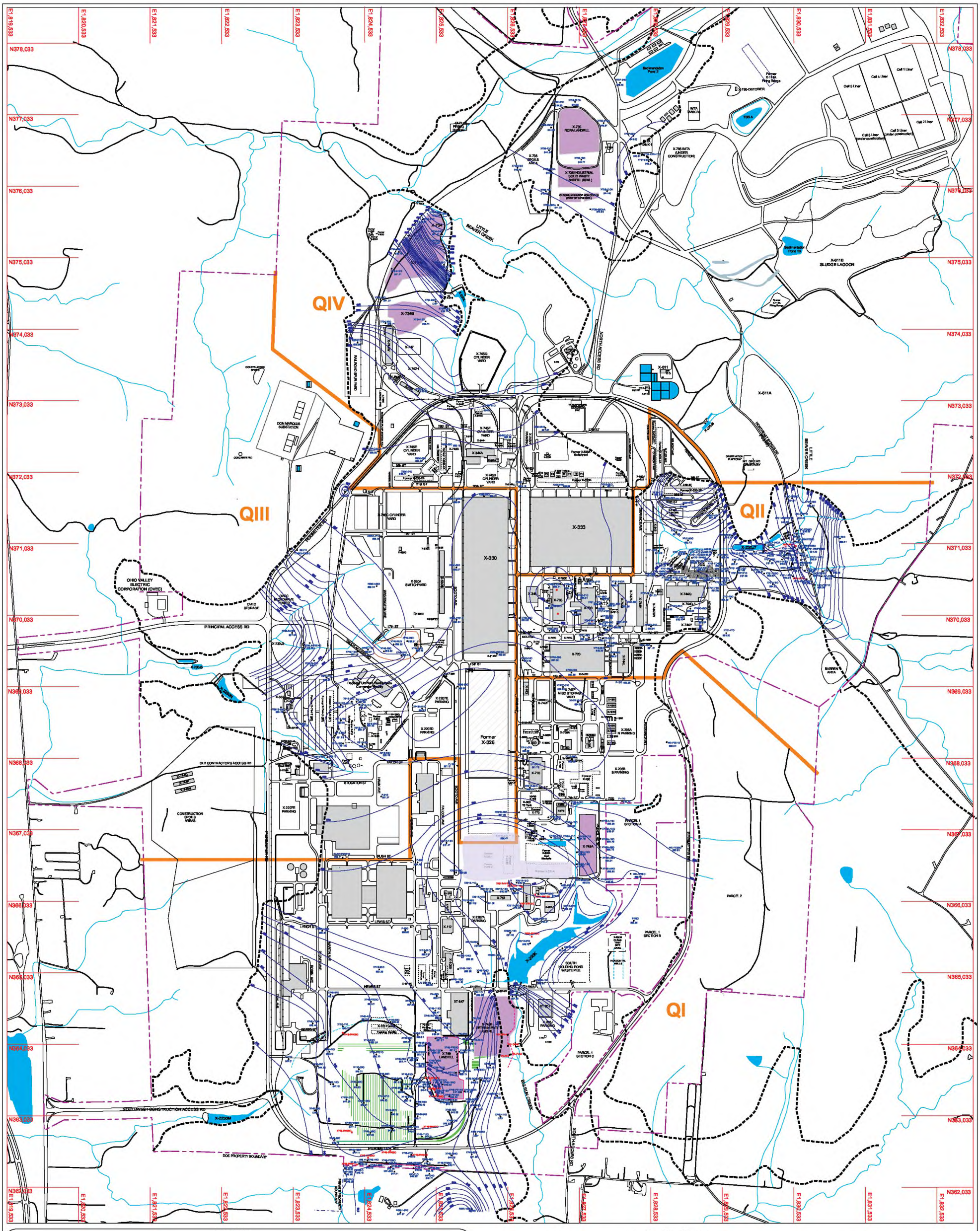


LEGEND

- Monitoring well used for potentiometric delineation (water elevation units = feet above mean sea level)
- Road
- Pond
- Railroad
- Potentiometric surface contour, elevation in feet above MSL, contour interval 2 feet
- Department of Energy property boundary
- Quadrant boundary
- Building
- Former facility/area
- Former facility slab in place
- Extraction well/building sump
- Approximate limit of Gallia/Minford
- Phytoremediation trench
- Barrier wall
- Approximate limit of X-740 excavation
- Stream/ditch
- Landfill cap
- Manhole
- Groundwater collection system
- N370,033 NAD State Plane Ohio South FIPS Feet (to the nearest foot)
- X-701B IRM treatment area
- Excavation area (2021-2025)

250 0 250 500 750
Approximate Scale in Feet

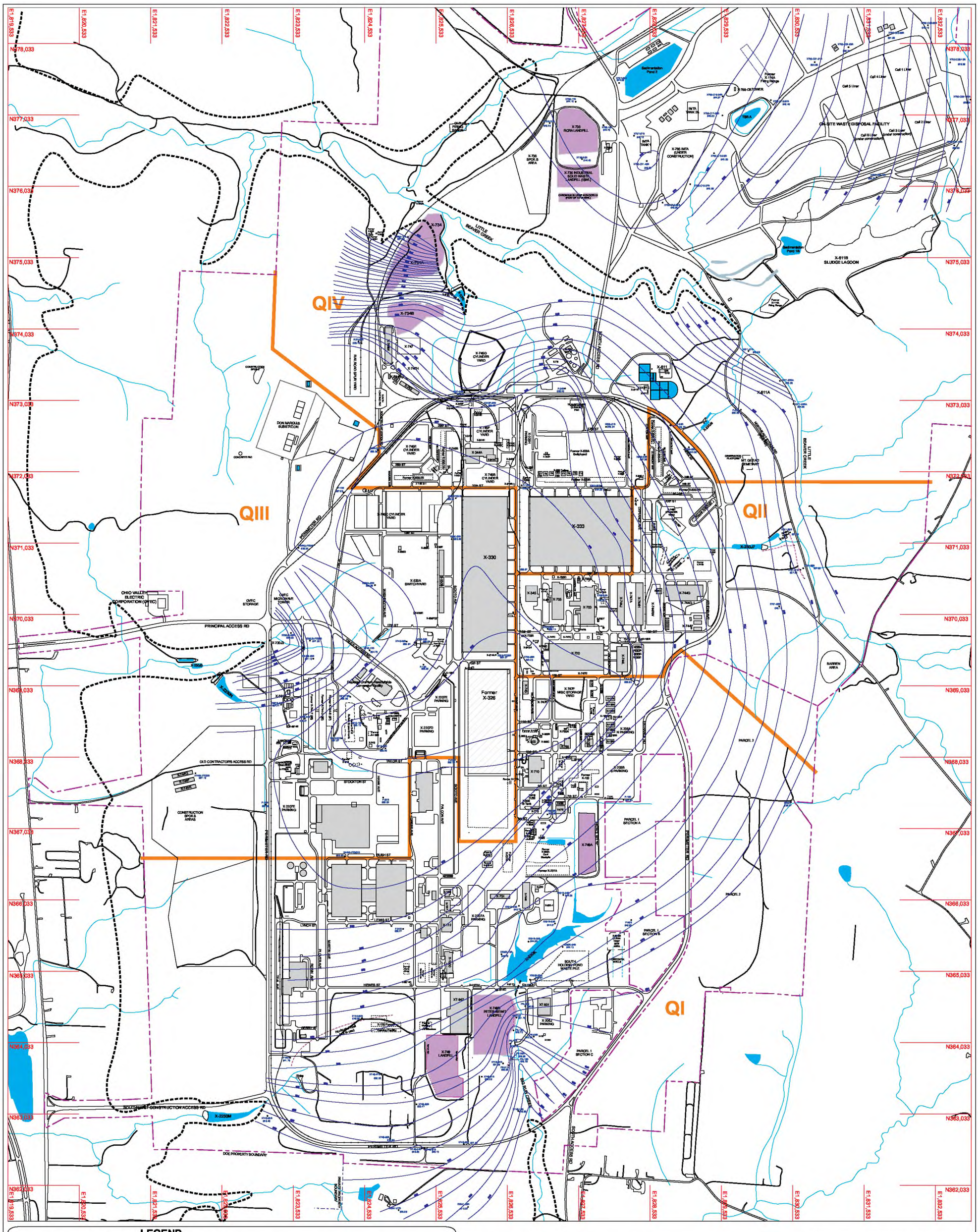
N
W E
S

U.S. DEPARTMENT OF ENERGY
DOE PORTSMOUTH/PADUCAH PROJECT OFFICE
ENVIRONMENTAL REMEDIATION ACTIVITIES

Southern Ohio Cleanup Company LLC | SOCCo

Portsmouth Gaseous Diffusion Plant
Figure 20b. Third quarter 2025 Gallia groundwater potentiometric map

DRAWING DATE	DOE CONTRACT NO.	FILENAME
February 23, 2026	89303323DEM000089	Gallia 2025 Pot Map.cdr
CLASS NO.	BLDG. NO.	PLANT NO.
NA	NA	PORTS
SCALE: 1 inch = 400 feet	DWG NO. NA	REV. 0


QIV
QIII
QII
QI
X-735 RCRA LANDFILL
X-735 INDUSTRIAL SOLID WASTE LANDFILL (ISWL)
X-735 SPOILS AREA
X-735 IMTA (UNDER CONSTRUCTION)
IMTA TANK 1
IMTA TANK 2
IMTA TANK 3
TSR A
X-735 CRITTENDEN
Former X-116A Firing Range
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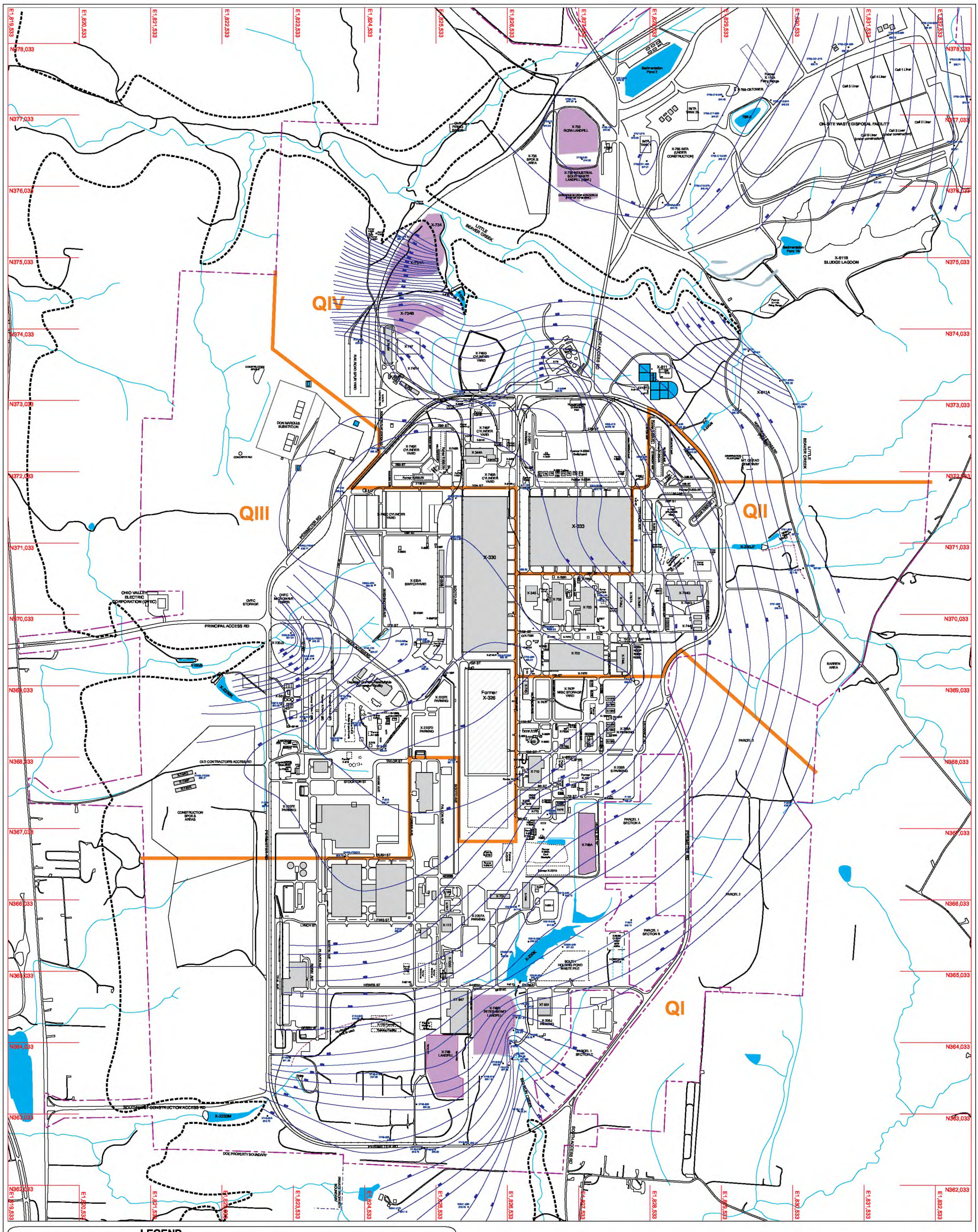
QIV
QIII
QII
QI
X-735 RCRA LANDFILL
X-735 INDUSTRIAL SOLID WASTE LANDFILL (NWA1)
X-735 SPOILS AREA
X-735 IMTA (UNDER CONSTRUCTION)
ON-SITE WASTE DISPOSAL FACILITY
Call 1 Liner
Call 2 Liner
Call 3 Liner (under construction)
Call 4 Liner
Call 5 Liner
Call 6 Liner (under construction)
Sedimentation Pond 2
Sedimentation Pond 1B
X-611B SLUDGE LAGOON
X-611
X-611A
X-734
X-734A
X-734B
LITTLE BEAVER CREEK
NORTH ACCESS RD
DON MARCUS SUBSTATION
X-745G CYLINDER YARD
X-745F CYLINDER YARD
X-745E CYLINDER YARD
X-745C CYLINDER YARD
X-333
X-330
X-326
X-720
X-700
X-705
X-345
X-710
X-749A
X-749 LANDFILL
X-749B PETER KEWIT LANDFILL
X-749F MISC STORAGE YARD
X-747
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X-2206ZS
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X-2206ZW
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X-2206ZZ
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X-112
X-2206K
SOUTH HOUSING POND WASTE PILE
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X-747B
X-747C
X-747D
X-747E
X-747F
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X-750A

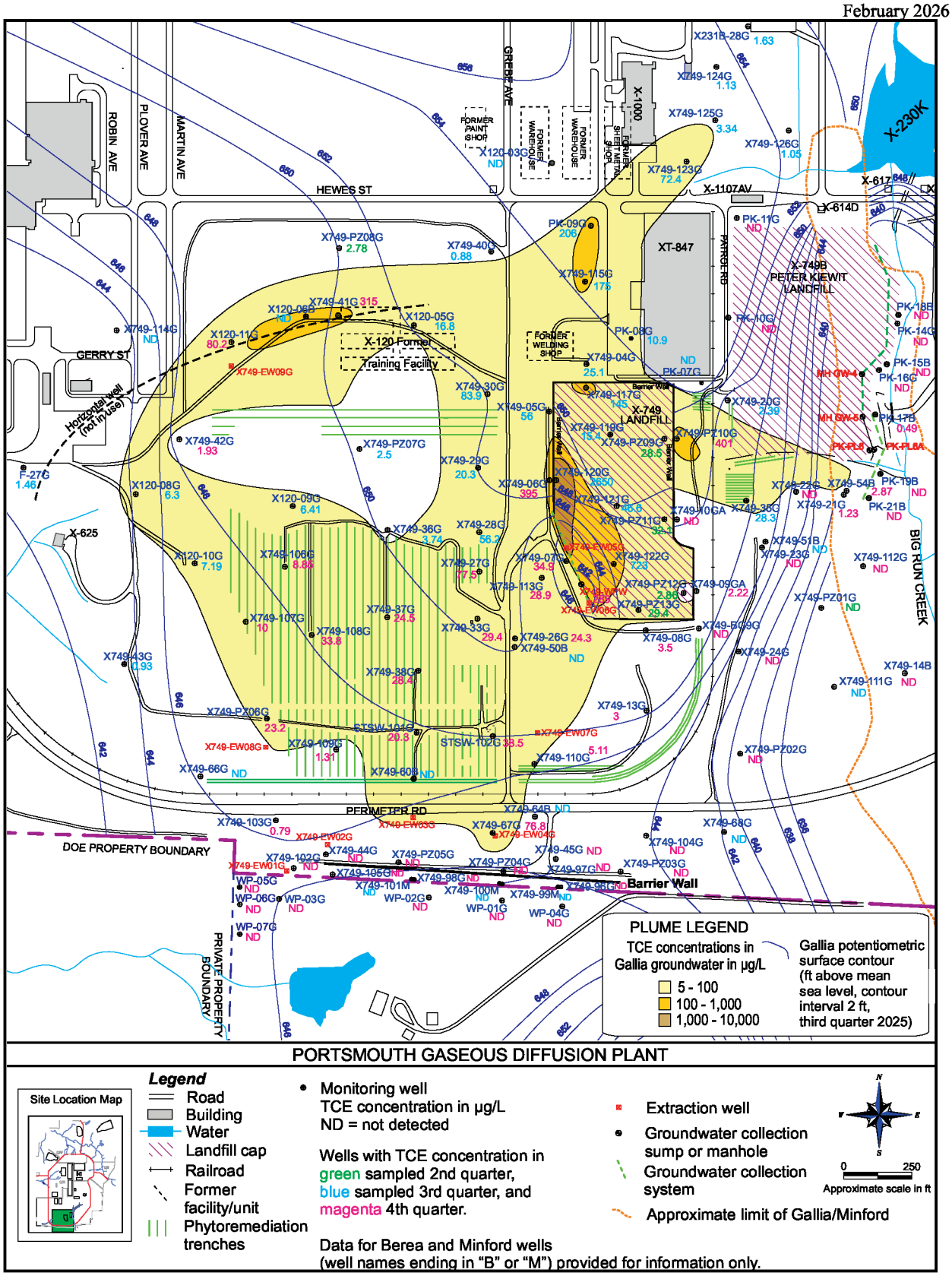

Figure 22. X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility Gallia groundwater TCE plume – 2025.

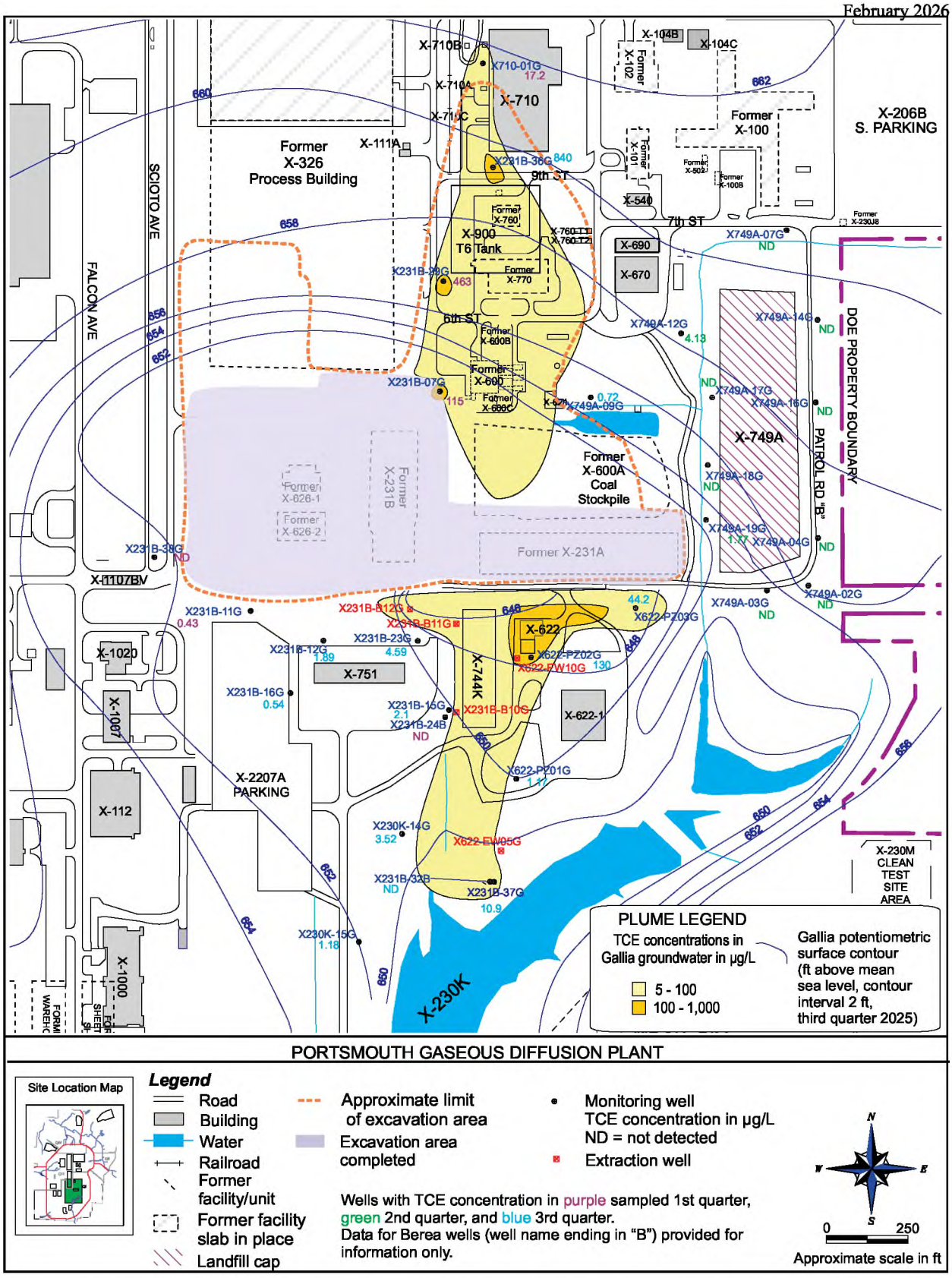

Figure 23. Quadrant I Groundwater Investigative (5-Unit) Area Gallia groundwater TCE plume – 2025.

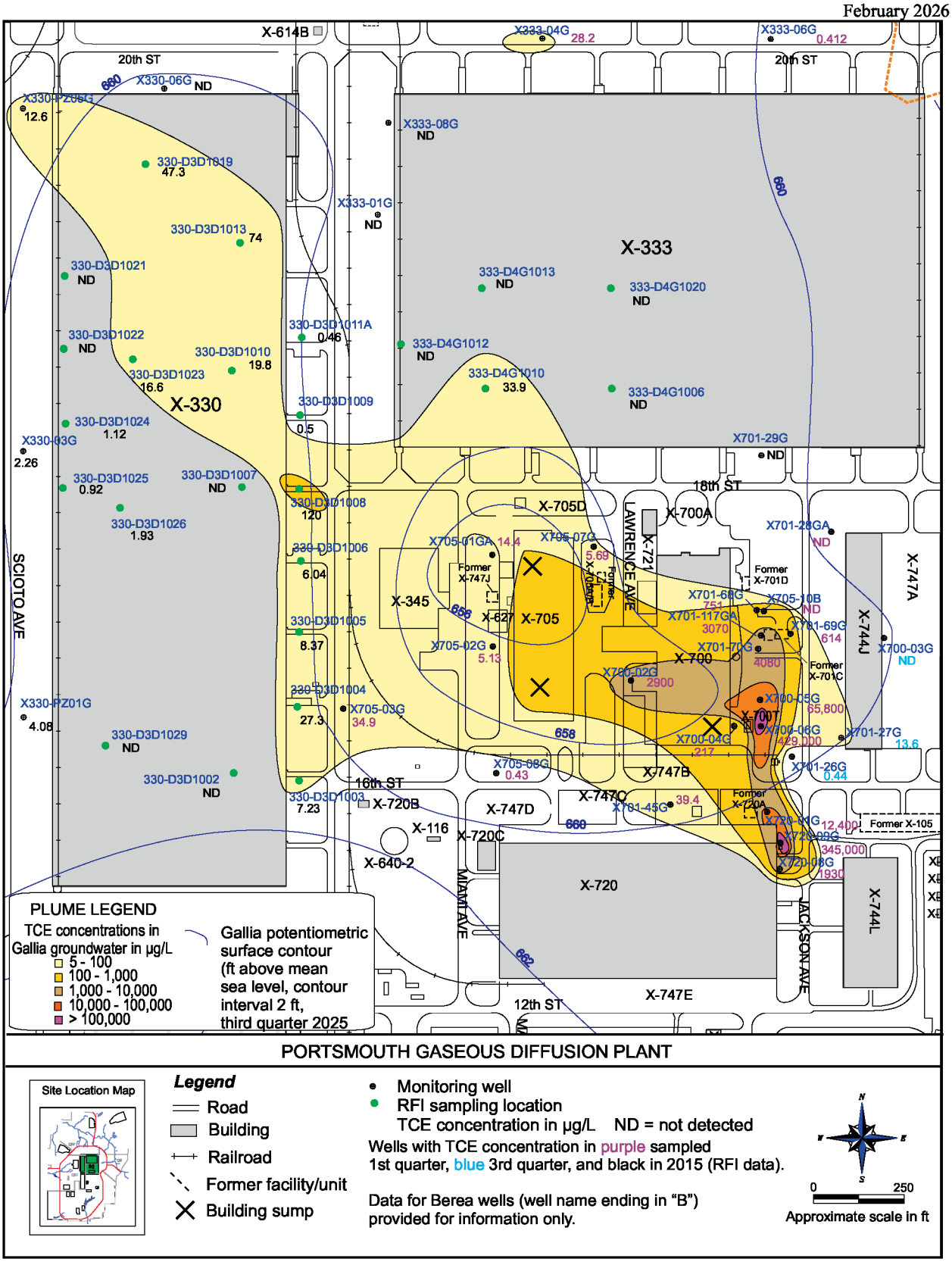

Figure 24. Quadrant II Groundwater Investigative (7-Unit) Area Gallia groundwater TCE plume – 2025.

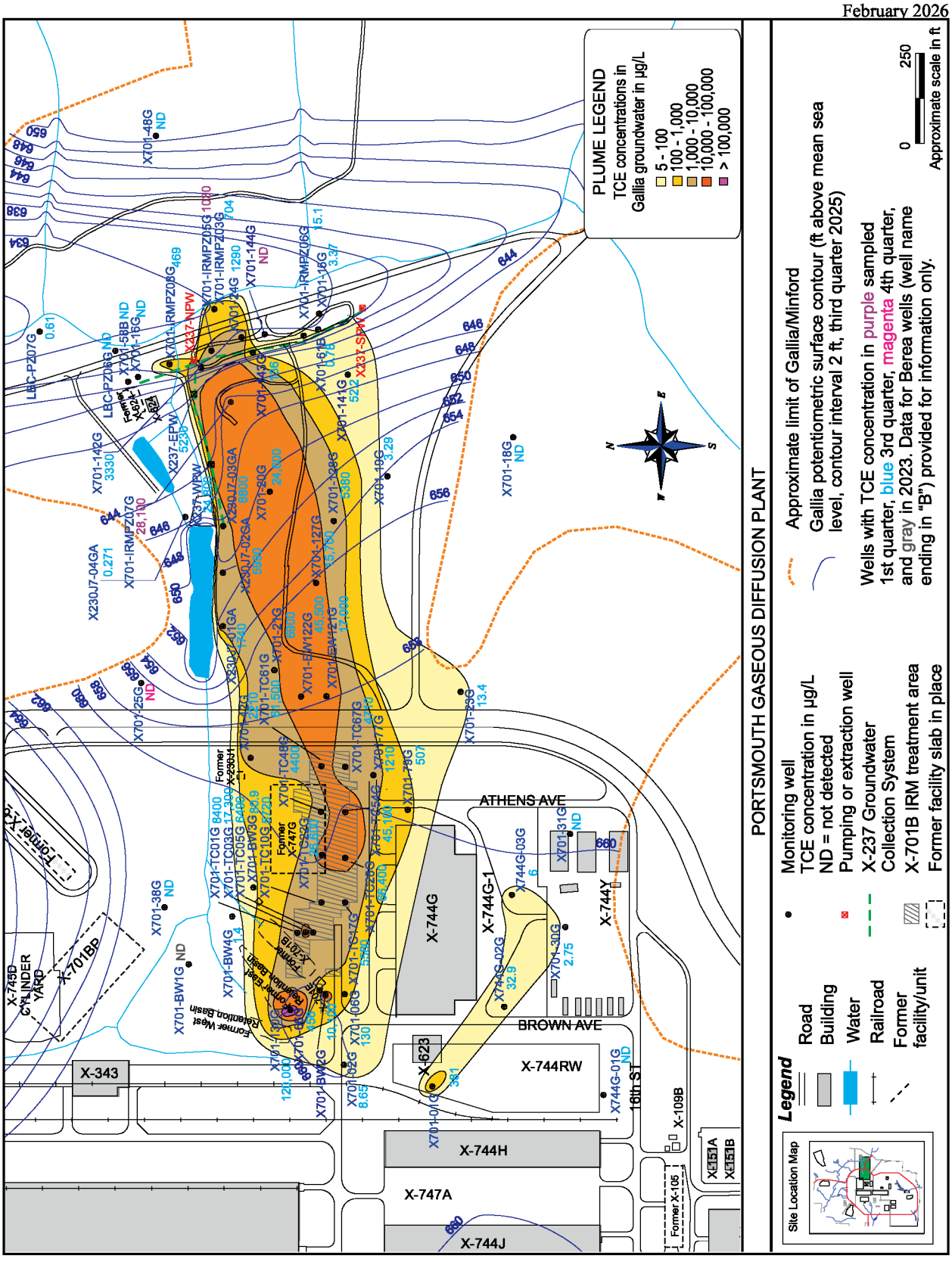

Figure 25. X-701B Former Holding Pond Gallia groundwater TCE plume – 2025.

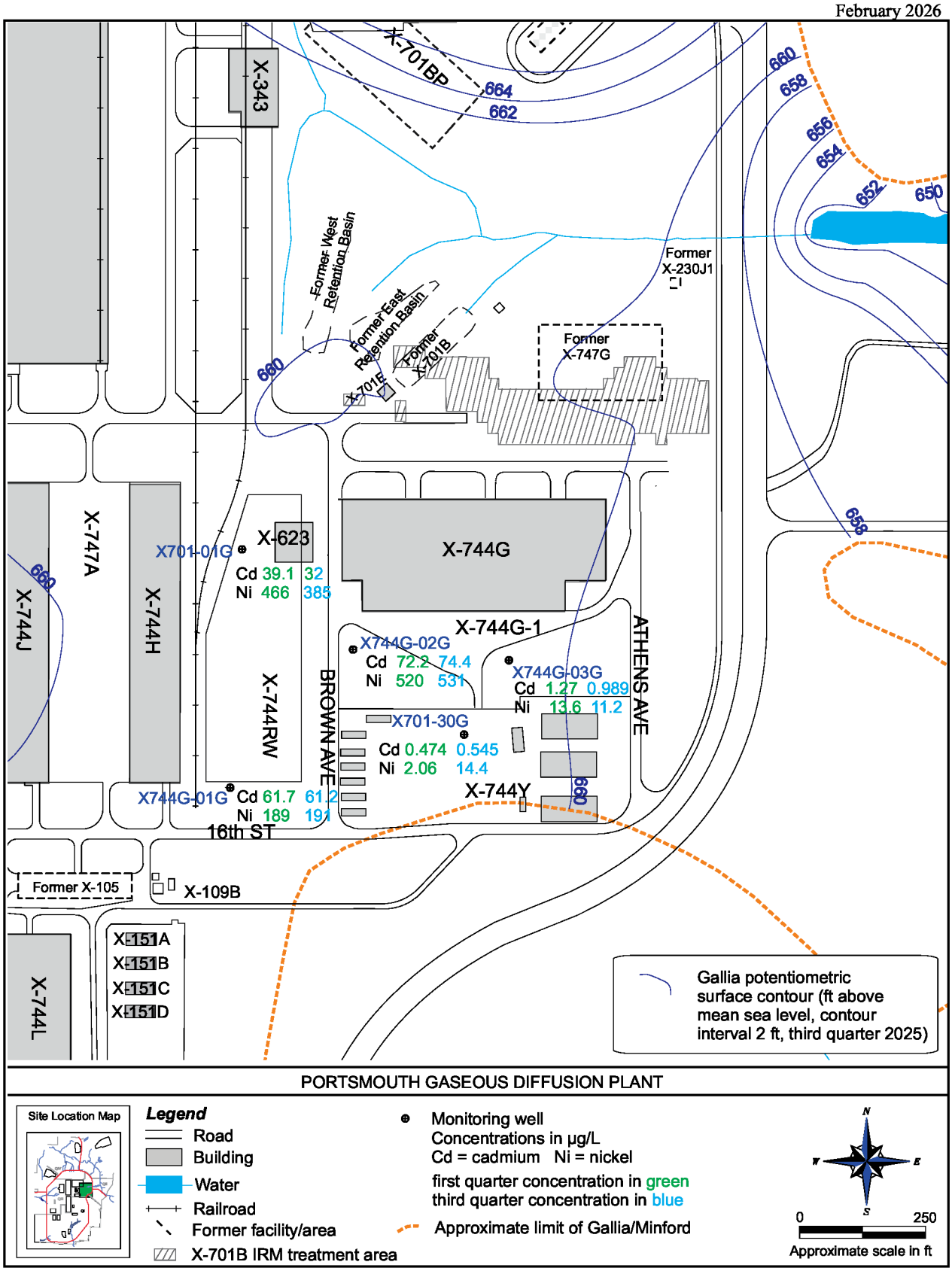

Figure 26. X-701B Former Holding Pond area cadmium and nickel concentrations – first and third quarters 2025.

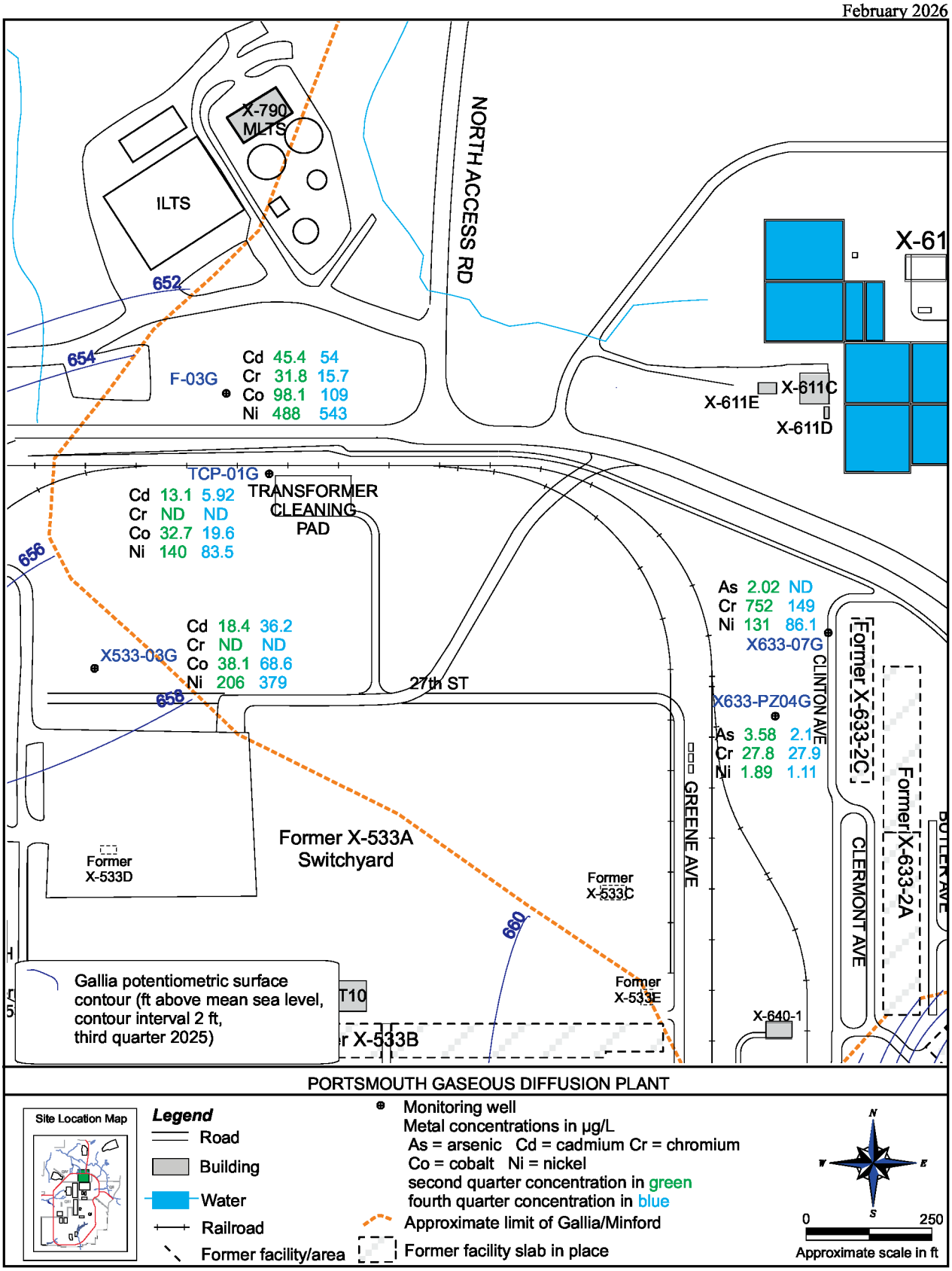

Figure 27. X-633 Former Recirculating Cooling Water Complex and X-533 Former Switchyard Complex metal concentrations – second and fourth quarters 2025.

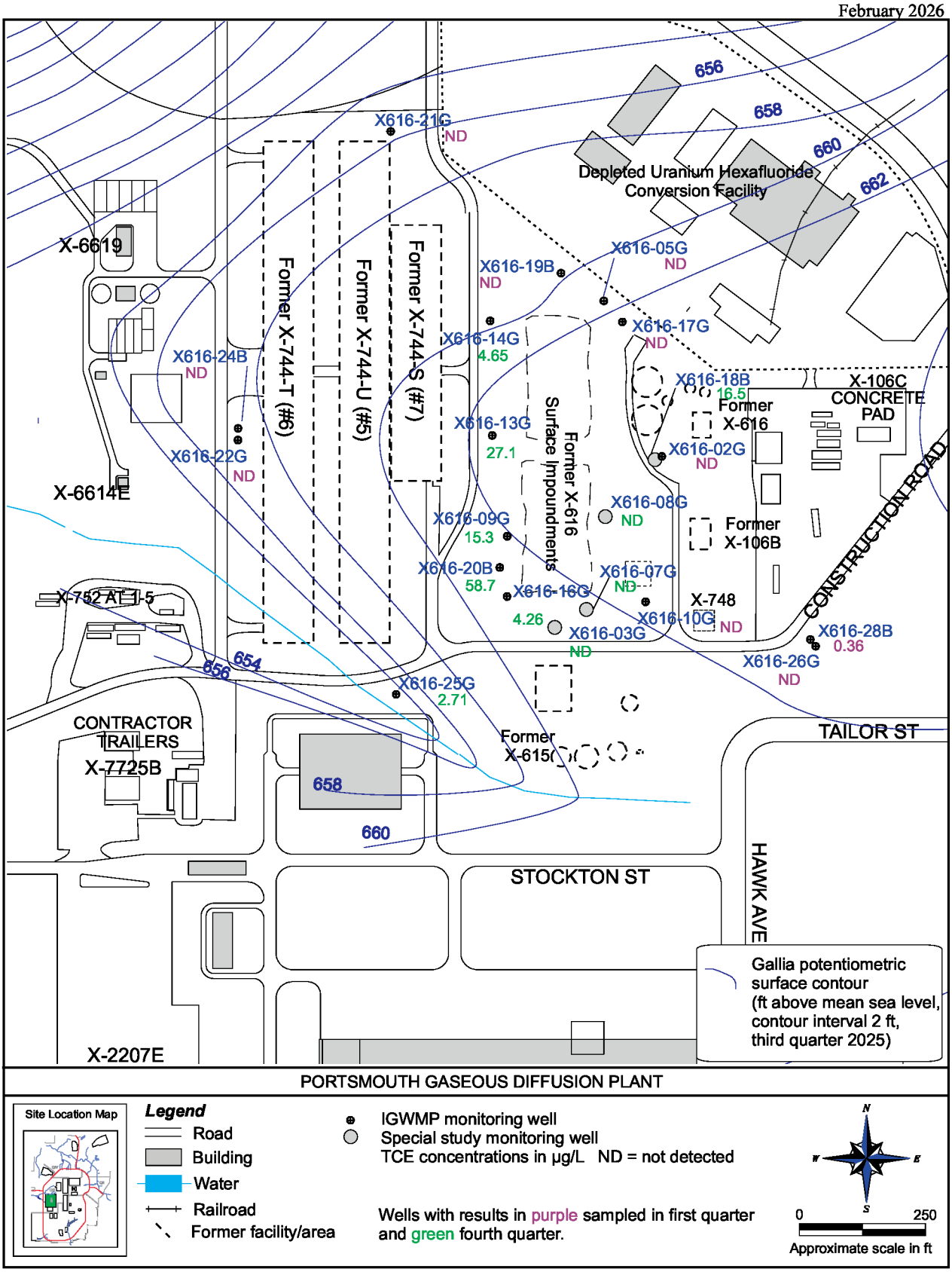

Figure 28. X-616 Former Chromium Sludge Surface Impoundments TCE concentrations – 2025.

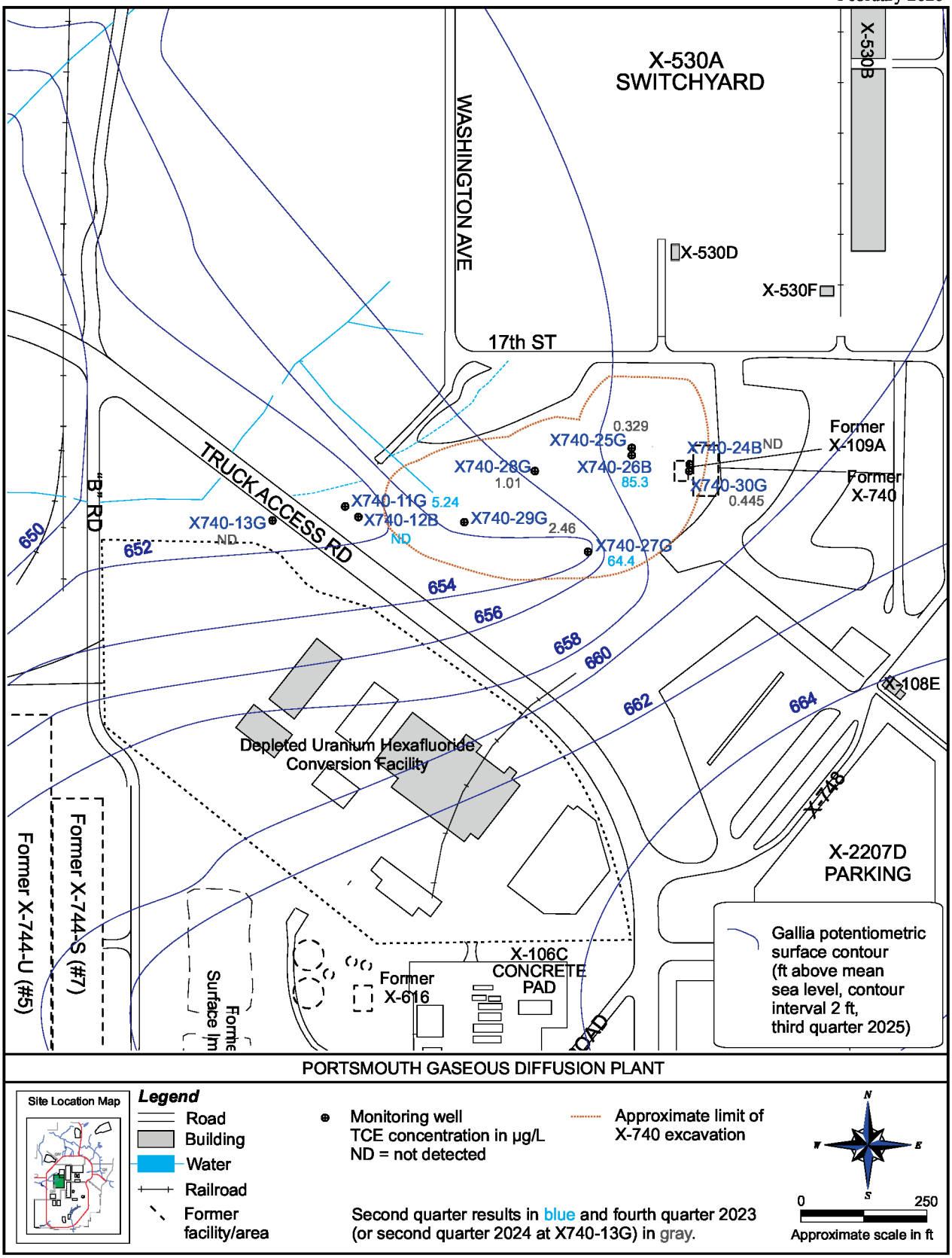

Figure 29. X-740 Former Waste Oil Handling Facility TCE concentrations – 2025.

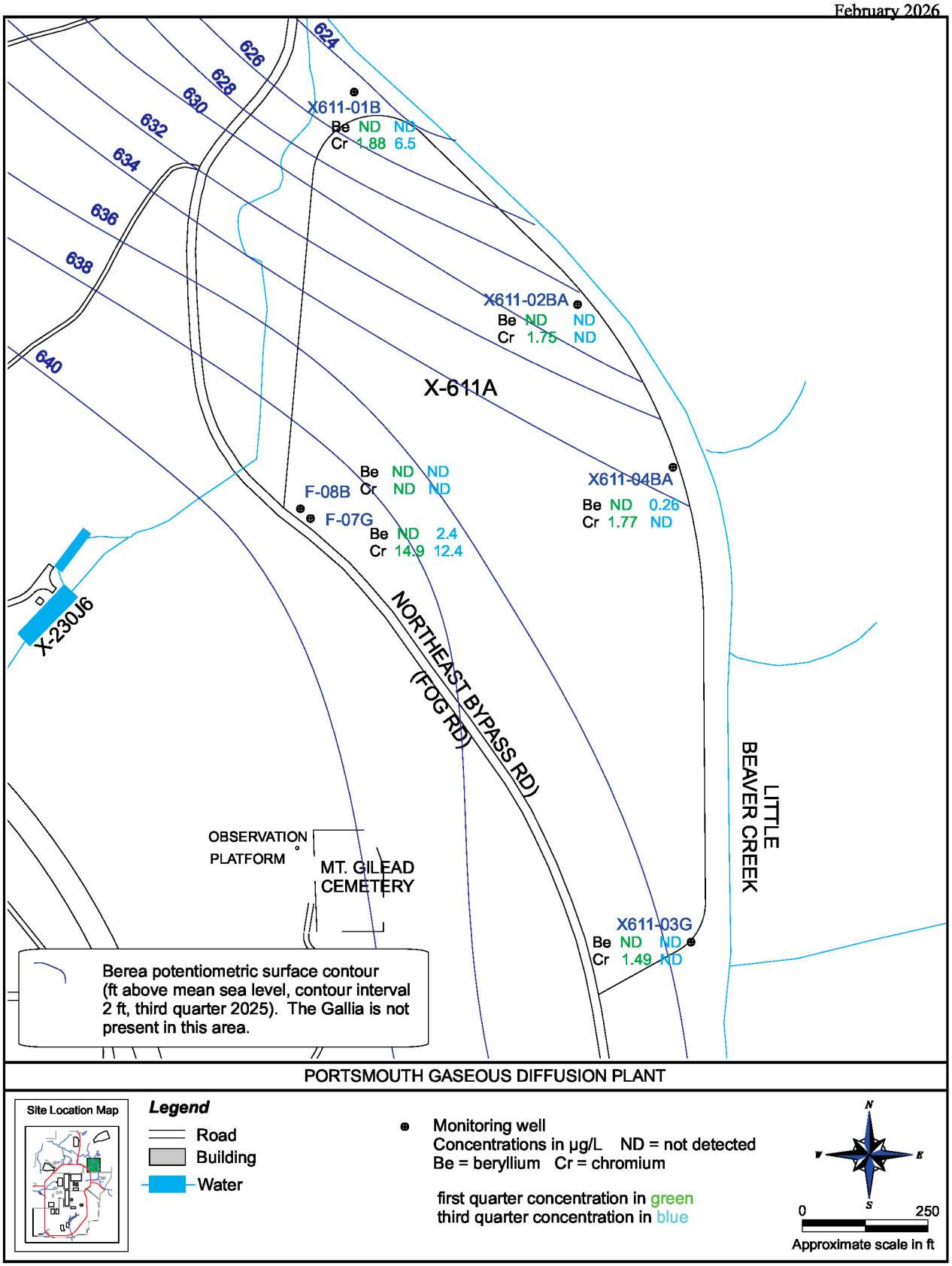

Figure 30. X-611A Former Lime Sludge Lagoons beryllium and chromium concentrations — first and third quarters 2025.

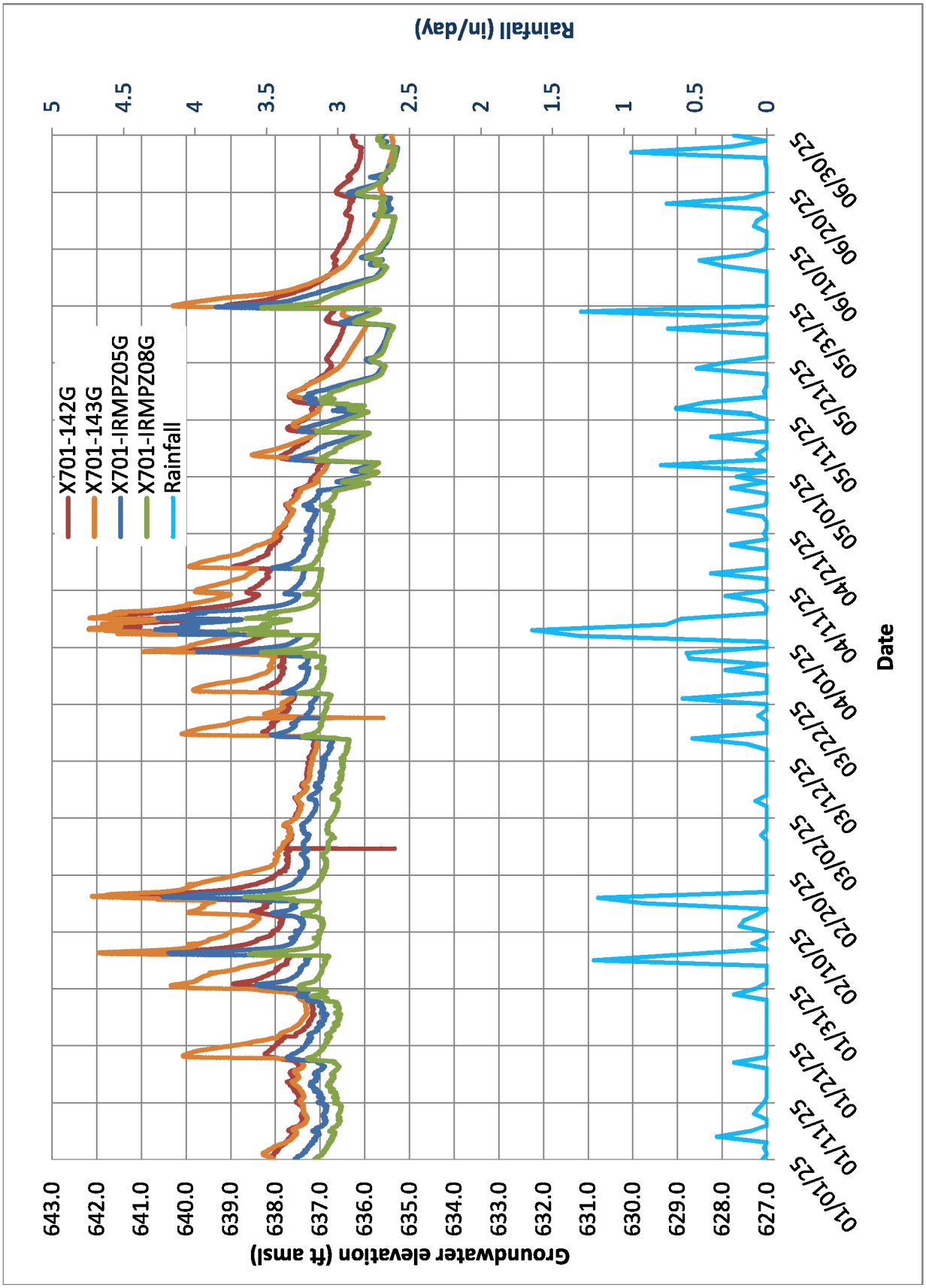

Figure 31. X-237 Groundwater Collection System groundwater elevations January – June 2025.

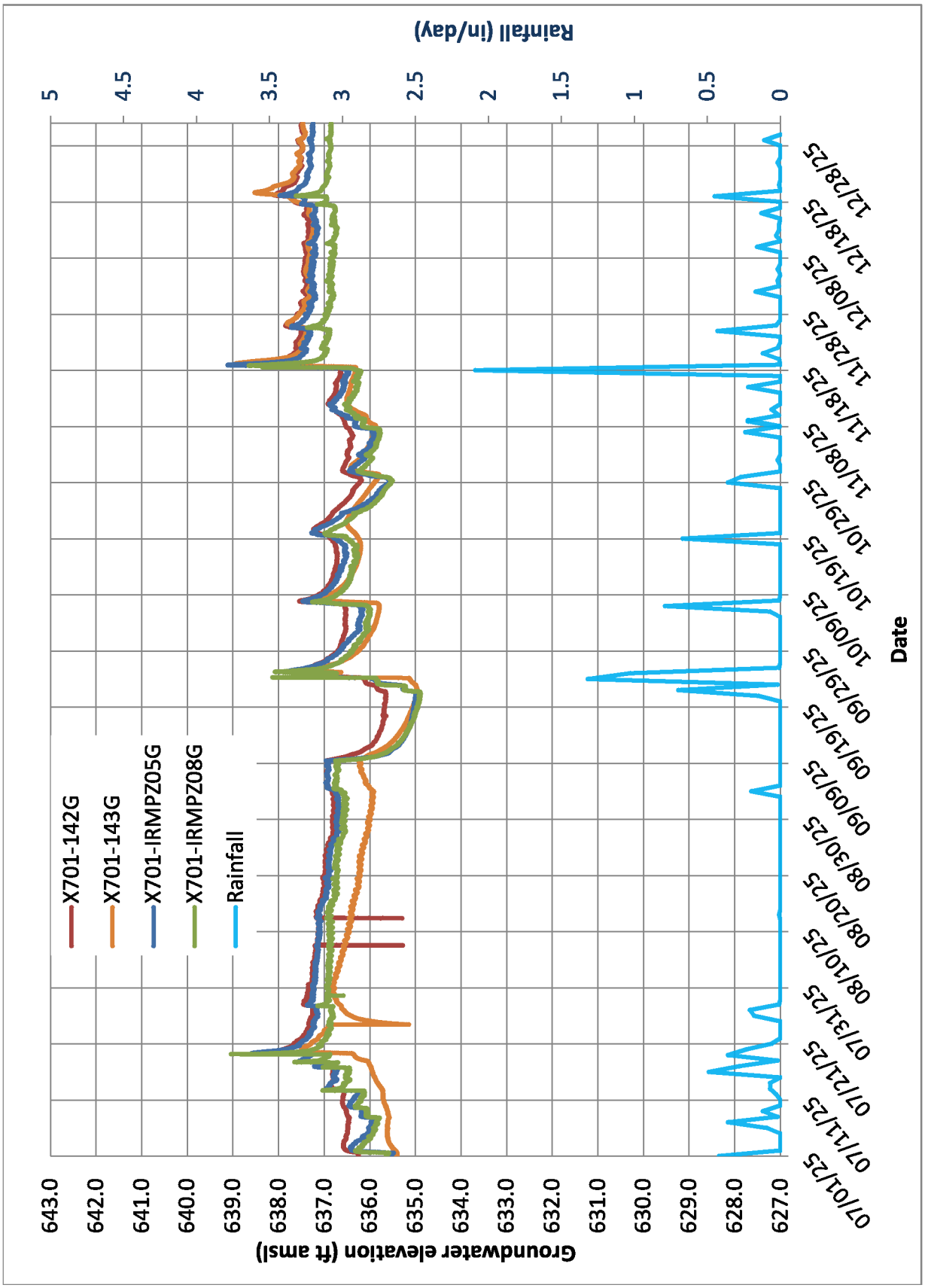

Figure 32. X-237 Groundwater Collection System groundwater elevations July – December 2025.

TABLES

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Table 1. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant I

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility				
F-27G			V1	
PK-07G			V1	
PK-08G			V1	
PK-09G			V1, M2	
STSW-101G		V1, R2		V1
STSW-102G		V1, R2		V1
WP-01G		V1, R2		V1
WP-02G		V1, R2		V1
WP-03G	V1	V1, R2	V1	V1
WP-04G		V1, R2		V1
WP-05G		V1, R2		V1
WP-06G		V1, R2		V1
WP-07G	V1	V1, R2	V1	V1
X120-03G			V1	
X120-05G			V1	
X120-06B			V1	
X120-08G			V1, R2	
X120-09G			V1	
X120-10G			V1	
X120-11G		V1, M2		V1
X231B-28G			V1, M2	
X749-04G			V1	
X749-05G			V1	
X749-06G		V1, R2		V1
X749-07G		V1, R1		V1
X749-08G		V1, R1		V1
X749-09GA		V1, M2		V1
X749-10GA		V1, R1		V1
X749-13G		V1, R2		V1
X749-14B		V1, R1		V1
X749-20G			V1, R2	
X749-21G		V1		V1
X749-22G		V1		V1
X749-23G		V1		V1
X749-24G		V1		V1
X749-26G		V1, R2		V1
X749-27G		V1, R2		V1
X749-28G			V1, R2	
X749-29G			V1	
X749-30G			V1	
X749-33G		V1, R2		V1
X749-35G			V1	
X749-36G			V1	
X749-37G		V1, R2		V1
X749-38G		V1		V1
X749-40G			V1	
X749-41G		V1		V1
X749-42G		V1		V1

Table 1. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant I (continued)

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility (continued)				
X749-43G			V1	
X749-44G	V1	V1, R1	V1	V1
X749-45G	V1	V1, R1	V1	V1
X749-50B			V1	
X749-51B			V1	
X749-54B		V1, R2		V1
X749-60B			V1	
X749-64B			V1, R1	
X749-66G			V1	
X749-67G	V1	V1, M2, R2	V1	V1
X749-68G			V1, R1	
X749-96G		V1, R1		V1
X749-97G	V1	V1, R1	V1	V1
X749-98G		V1, R1		V1
X749-99M			V1	
X749-100M			V1	
X749-101M			V1	
X749-102G	V1	V1	V1	V1
X749-103G	V1	V1	V1	V1
X749-104G		V1		V1
X749-105G		V1		V1
X749-106G		V1, R2		V1
X749-107G		V1		V1
X749-108G		V1, R2		V1
X749-109G		V1, R2		V1
X749-110G		V1, R2		V1
X749-111G			V1	
X749-112G		V1		V1
X749-113G		V1, R2		V1
X749-114G			V1	
X749-115G			V1	
X749-117G			V1	
X749-119G			V1	
X749-120G			V1, R2	
X749-121G			V1, R2	
X749-122G			V1	
X749-123G			V1, M2	
X749-124G			V1, M2	
X749-125G			V1, M2	
X749-126G			V1, M2	
X749-BG9G		V1		V1
X749-PZ01G		V1		
X749-PZ02G		V1, R2		V1
X749-PZ03G		V1		V1
X749-PZ04G	V1	V1, R2, M2	V1	V1
X749-PZ05G	V1	V1	V1	V1
X749-PZ06G		V1		V1
X749-PZ07G			V1	

Table 1. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant I (continued)

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility (continued)				
X749-PZ08G		V1		
X749-PZ09G		V1, R2		
X749-PZ10G		V1, R2		V1
X749-PZ11G		V1, R2		
X749-PZ12G		V1, R2		
X749-PZ13G		V1, R2		
X749-WPW		V1, R1		V1
PK Landfill				
MH GW-4			V1	
MH GW-5			V1	
PK-10G		V1		V1
PK-11G		V1, M2		V1
PK-14G		V1, M2		V1
PK-15B		V1		V1
PK-16G		V1		V1
PK-17B		V1, M2		V1
PK-18B		V1		V1
PK-19B		V1, M2		V1
PK-21B		V1		V1
PK-PL6	V1	V1	V1	V1
PK-PL6A	V1	V1	V1	V1
Quadrant I Groundwater Investigative (5-Unit) Area				
X230K-14G			V1	
X230K-15G			V1	
X231B-07G	V1			
X231B-11G	V1			
X231B-12G			V1	
X231B-15G			V1	
X231B-16G			V1	
X231B-23G			V1	
X231B-24B	V1			
X231B-29G	V1			
X231B-32B			V1	
X231B-36G			V1	
X231B-37G			V1	
X231B-38G	V1			
X622-PZ01G			V1	
X622-PZ02G			V1	
X622-PZ03G			V1	
X710-01G	V1			
X749A-09G			V1	

Table 1. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant I (continued)

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-749A Classified Materials Disposal Facility				
X749A-02G		LF1, LF2, R2		LF1
X749A-03G		LF1, LF2, R2		LF1
X749A-04G		LF1, LF2, R2		LF1
X749A-07G		LF1, LF2, R2		LF1
X749A-12G		LF1, LF2, R2		LF1
X749A-14G		LF1, LF2, R2		LF1
X749A-16G		LF1, LF2, R2		LF1
X749A-17G		LF1, LF2, R2		LF1
X749A-18G		LF1, LF2, R2		LF1
X749A-19G		LF1, LF2, R2		LF1

[a]Table 6 provides the specific parameters for each analytical group (V1, M2, R2, LF1, etc.).

Table 2. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant II

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
Quadrant II Groundwater Investigative (7-Unit) Area				
X333-04G	V1			
X333-06G	V1			
X700-02G	V1, M6, R2			
X700-03G	V1		V1	
X700-04G	V1, R2			
X700-05G	V1, R2			
X700-06G	V1, R2			
X701-26G	V1, R2		V1	
X701-27G	V1		V1	
X701-28GA	V1			
X701-45G	V1			
X701-68G	V1, R2			
X701-69G	V1, R2			
X701-70G	V1, R2			
X701-117GA	V1, M6			
X705-01GA	V1, M6, R1			
X705-02G	V1, M6, R2			
X705-03G	V1			
X705-04G	not sampled[b]			
X705-06G	not sampled[b]			
X705-07G	V1, M6, R2			
X705-08G	V1			
X705-10B	V1			
X720-01G	V1, R2, 14D			
X720-08G	V1, R2			
X720-09G	V1, R2			
X-701B Former Holding Pond				
LBC-PZ06G	V1, R2		V1	
LBC-PZ07G			V1	
X230J7-01GA	V1, R2, WQ1		V1, WQ1	
X230J7-02GA	V1, R2, WQ1		V1, WQ1	
X230J7-03GA	V1, R1, WQ1		V1, WQ1	
X230J7-04GA			V1, R2	
X237-EPW			V1	
X237-WPW			V1	
X701-01G	V1, M2, R2		V1, M2	
X701-02G	V1, R2, WQ1		V1, WQ1	
X701-06G	V1, R2, WQ1		V1, WQ1	
X701-15G	V1, R2		V1	
X701-16G	V1, R2		V1	
X701-18G			V1, R2	
X701-19G	V1, R2		V1	
X701-20G	V1, M2, R1, WQ1		V1, M2, R1, WQ1	
X701-21G	V1, R2, WQ1	WQ1	V1, WQ1	WQ1
X701-23G			V1, R2	
X701-24G	V1, R1, WQ1		V1, WQ1	
X701-25G	V1, R2			V1
X701-30G	V1, M2, R2		V1, M2	
X701-31G			V1, R2	

Table 2. Sampling schedule and analytical parameter suites[a] – 2025 RCRA Corrective Action Program Quadrant II (continued)

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-701B Former Holding Pond (continued)				
X701-38G			V1, R2	
X701-42G			V1, R2	
X701-48G			V1, R1	
X701-58B			V1, R2	
X701-61B			V1, R2	
X701-66G	V1, WQ1, R1		V1, WQ1, R1	
X701-77G			V1, R2	
X701-79G			V1, R2	
X701-127G	V1, M2, R1, WQ1		V1, M2, R1, WQ1	
X701-128G	V1, R1, WQ1		V1, WQ1	
X701-130G			V1, R2	
X701-141G			V1	
X701-142G	V1		V1	
X701-143G	V1		V1	
X701-144G	V1			
X701-BW1G			not sampled[c]	
X701-BW2G			V1, R2, WQ1	
X701-BW3G			V1, R2	
X701-BW4G	V1, R2, WQ1		V1, WQ1	
X701-EW121G	V1, R2, WQ1	WQ1	V1, R2, WQ1	WQ1
X701-EW122G	V1, R2, WQ1	WQ1	V1, R2, WQ1	WQ1
X701-IRMPZ03G	V1		V1	
X701-IRMPZ05G	V1			
X701-IRMPZ06G	V1, R2		V1	
X701-IRMPZ07G	V1			
X701-IRMPZ08G	V1		V1	
X701-TC01G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC03G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC05G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC10G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC17G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC22G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC28G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC48G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC54G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC61G	V1, R1, WQ1		V1, R1, WQ1	
X701-TC67G	V1, R1, WQ1		V1, R1, WQ1	
X744G-01G	V1, M2		V1, M2	
X744G-02G	V1, M2		V1, M2	
X744G-03G	V1, M2		V1, M2	
X-633 Former Recirculating Cooling Water Complex				
X633-07G		M7		M7
X633-PZ04G		M7		M7

[a]Table 6 provides the specific parameters for each analytical group (V1, M2, M3, etc.).
[b]Well was not sampled because it has been removed for D&D.
[C]Well was not sampled due to maintenance issues in the well area.

Table 3. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant III

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-616 Former Chromium Sludge Surface Impoundments				
X616-02G	V1, M2			
X616-03G		V1[b]	V1[b]	V1[b]
X616-05G	V1, M2			
X616-07G		V1[b]	V1[b]	V1[b]
X616-08G		V1[b]	V1[b]	V1[b]
X616-09G	V1, M2	V1[b]	V1	V1[b]
X616-10G	V1, M2			
X616-13G	V1, M2	V1[b]	V1	V1[b]
X616-14G	V1, M2	V1[b]	V1	V1[b]
X616-16G	V1, M2	V1[b]	V1[b]	V1[b]
X616-17G	V1, M2			
X616-18B		V1[b]	V1[b]	V1[b]
X616-19B	V1, M2			
X616-20B	V1, M2	V1[b]	V1	V1[b]
X616-21G	V1, M2			
X616-22G	V1, M2			
X616-24B	V1, M2			
X616-25G	V1, M2	V1[b]	V1	V1[b]
X616-26G	V1, M2			
X616-28B	V1, M2			
X-740 Former Waste Oil Handling Facility				
X740-11G		V1		
X740-12B		V1		
X740-26B		V1		
X740-27G		V1		
X-530A Switchyard Complex				
X530A-03G		V1, M3		
X-744N, P, and Q Warehouses				
F-21G		M8		

[a]Table 6 provides the specific parameters for each analytical group (V1, M2, M8, etc.).
[b]Additional special study sampling.

Table 4. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant IV

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-611A Former Lime Sludge Lagoons				
F-07G	M4		M4	
F-08B	M4		M4	
X611-01B	M4		M4	
X611-02BA	M4		M4	
X611-03G	M4		M4	
X611-04BA	M4		M4	
X-735 Landfills				
X735-01GA		LF1, LF2, LF3, R2		LF1, LF3
X735-02GA		LF1, LF2, LF3, R2		LF1, LF3
X735-03GA		LF1, LF2, LF3, R2		LF1, LF3
X735-04GA		LF1, LF2, LF3, R2		LF1, LF3
X735-05GA		LF1, LF2, LF3, R2		LF1, LF3
X735-06GAA		LF1, LF2, LF3, R2		LF1, LF3
X735-13GA		LF1, LF2, LF3, R2		LF1, LF3
X735-16B		LF1, LF2, R2		LF1
X735-17B		LF1, LF2, R2		LF1
X735-18B		LF1, LF2, R2		LF1
X735-19G		LF1, LF2, LF3, R2		LF1, LF3
X735-20B		LF1, LF2, R2		LF1
X735-21G		LF1, LF2, LF3, R2		LF1, LF3
X737-05B		LF1, LF2, R2		LF1
X737-06G		LF1, LF2, LF3, R2		LF1, LF3
X737-07B		LF1, LF2, R2		LF1
X737-09G		LF1, LF2, LF3, R2		LF1, LF3
X-734 Landfills				
RSY-02B		V1, LF5, M2, R1		V1
X734-01G		V1, LF5, M2, R1		V1
X734-02B		V1, LF5, M2, R1		V1
X734-03G		V1, LF5, M2, R1		V1
X734-04G		V1, LF5, M2, R1		V1
X734-05B		V1, LF5, M2, R1		V1
X734-06G		V1, LF5, M2, R1		V1
X734-10G		V1, LF5, M2, R1		V1
X734-14G		V1, LF5, M2, R1		V1
X734-15G		V1, LF5, M2, R1		V1
X734-16G		V1, LF5, M2, R1		V1
X734-18G		V1, LF5, M2, R1		V1
X734-20G		V1, LF5, M2, R1		V1
X734-22G		V1, LF5, M2, R1		V1
X734-23G		V1, LF5, M2, R1		V1

Table 4. Sampling schedule and analytical parameter suites[a] – 2025
RCRA Corrective Action Program Quadrant IV (continued)

Well number	First quarter	Second quarter	Third quarter	Fourth quarter
X-533 Former Switchyard Complex				
F-03G		M13		M13
TCP-01G		M13		M13
X533-03G		M13		M13
X-230J6 Northeast Holding Pond and Northeast Drainage Ditch				
F-07G			M9, R6	
F-08B			M9, R6	
X230J6-01G			M10	
X-342 Fluorine Buildings				
F-09G			M10	
X342C-01G			M10	
X745F-01G			M10	
X-630 Former Recirculating Cooling Water Complex				
X630-02G				M11

[a]Table 6 provides the specific parameters for each analytical group (LF1, M9, R6, etc.).

Table 5. Sampling schedule and analytical parameter suites[a] – 2025 other IGWMP monitoring

Sampling point	First quarter	Second quarter	Third quarter	Fourth quarter
Surface Water Monitoring				
BRC-SW01	V1, R2	not sampled[b]	V1, R2	V1, R1, M12
BRC-SW02	V1, R2	V1, R1, M12	V1, R2	V1, R1, M12
BRC-SW05	V1, R2	V1, R1, M12	V1, R2	V1, R1, M12
EDD-SW01	V1, R2	V1, R1, M12, PAH	V1, R2	V1, R1, M12, PAH
LBC-SW01	V1, R2	V1, R1, M12, PAH	V1, R2	V1, R1, M12, PAH
LBC-SW02	V1, R2	V1, R1, M12, PAH	V1, R2	V1, R1, M12, PAH
LBC-SW03	V1, R2	V1, R1, M12, PAH	V1, R2	V1, R1, M12, PAH
LBC-SW04	not sampled[b]	not sampled[b]	not sampled[b]	not sampled[b]
NHP-SW01	V1, R2	V1, R1, M12, PAH	V1, R2	V1, R1, M12, PAH
UND-SW01	V1, R2	V1, R1	V1, R2	V1, R1
UND-SW02	V1, R2	V1, R1	V1, R2	V1, R1
WDD-SW01	V1, R2	V1, R1	V1, R2	V1, R1
WDD-SW02	V1, R2	V1, R1	V1, R2	V1, R1
WDD-SW03	V1, R2	V1, R1	V1, R2	V1, R1
Water Supply Monitoring				
RES-012	V1, R1, R3		V1, R1, R3	
RES-014	V1, R1, R3		V1, R1, R3	
RES-015	V1, R1, R3		V1, R1, R3	
RES-017	not sampled[c]		not sampled[c]	

[a]Table 6 provides the specific parameters for each analytical group (V1, PAH, R1, R2, etc.).
[b]BRC-SW01 was not sampled in the second quarter because there was no flow at the location. LBC-SW04 was not sampled in 2025 due to safety concerns at the sampling location.
[c]This location was not sampled because the owner had not renewed the license agreement that allows DOE to access the property.

Table 6. Analytical parameter suites

Parameter suite	Analyte	Method number[a]
LF1	Landfill parameters #1:	
	Ammonia	350.1
	Nitrate/nitrite	353.2
	Chloride	300
	Sulfate	300
	Alkalinity	310.1 or 2320B
	Total metals: Ca, Fe, K, Na	6010 or 6020
LF2	Landfill parameters #2:	
	Volatile organic compounds: V1 parameters and the following: 1,1,1,2-tetrachloroethane, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, 1,2-dichloropropane, 2-hexanone, acrylonitrile, bromochloromethane, *cis*-1,3-dichloropropene, dibromomethane, iodomethane, styrene, *trans*-1,3-dichloropropene, *trans*-1,4-dichloro-2-butene, vinyl acetate	8260
	Total metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mg, Mn, Ni, Se, Ag, Tl, V, Zn	6010 or 6020
	Chemical oxygen demand	410.4
	Total dissolved solids	SM 2540 C
LF3	Landfill parameters #3:	
	Total metals: Co, Hg, Ni	6010 or 6020 and 7470 (Hg)
	Total dissolved solids	SM 2540 C
LF5	Landfill parameters #5:	
	Chloride	300
	Sulfate	300
	Alkalinity	310.1 or 2320B
	Total dissolved solids	SM 2540 C
	Total metals: Na	6010 or 6020
	Ammonia	350.1
	Chemical oxygen demand	410.4
	Nitrate/nitrite	353.2

Table 6. Analytical parameter suites (continued)

Parameter suite	Analyte	Method number[a]
M2	Total metals #2: Be, Cd, Cr, Mn, Ni	6010 or 6020
M3	Total metals #3: Cr	6010 or 6020
M4	Total metals #4: Be, Cr	6010 or 6020
M5	Total metals #5: Cd, Ni	6010 or 6020
M6	Total metals #6: Be, Cd, Co, Cr, Mn, Ni. Hexavalent Cr	6010 or 6020, 7196A
M7	Total metals #7: As, Cr, Ni	6010 or 6020
M8	Total metals #8: Co, Ni	6010 or 6020
M9	Total metals #9: As, Tl, V	6010 or 6020
M10	Total metals #10: Co	6010 or 6020
M11	Total metals #11: As, Cr	6010 or 6020
M12	Total metals #12: As, Co, Fe, Mn, Tl	6010 or 6020
M13	Total metals #13: Cd, Cr, Co, Ni	6010 or 6020
PAH	Polycyclic aromatic hydrocarbon: 2-methylnaphthalene, acenaphthene, anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, pyrene)	8270
R1	Radionuclides #1: transuranics (Am-241, Np-237, Pu-238, Pu-239/240), technetium-99, uranium, isotopic uranium (U-233/234, U-235/236, U-238)	
R2	Radionuclides #2: technetium-99, uranium, isotopic uranium (U-233/234, U-235/236, U-238)	
R3	Radionuclides #3: alpha activity	
R6	Radionuclides #6: uranium, isotopic uranium (U-233/234, U-235/236, U-238)	
V1	Volatile organic compounds #1: 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-dimethylbenzene 1,4-dichlorobenzene, 2-butanone, 4-methyl-2-pentanone, acetone, benzene, bromodichloromethane, bromoform, bromomethane, carbon disulfide, carbon tetrachloride, chlorobenzene, chloroethane, chloroform, chloromethane, *cis*-1,2-dichloroethene, dibromochloromethane, ethylbenzene, m,p-xylenes, methylene chloride, tetrachloroethene, toluene, *trans*-1,2-dichloroethene, trichloroethene, trichlorofluoromethane, vinyl chloride	8260

Table 6. Analytical parameter suites (continued)

Parameter suite	Analyte	Method number[a]
WQ1	Water quality parameters #1: Alkalinity Chloride Sulfate Total dissolved solids	 310.1 or 2320B 300 300 SM 2540 C
14D	1,4-Dioxane	8260 or 8270

Field measurements taken at each well: conductivity, depth to water, dissolved oxygen, pH, temperature, and turbidity.
[a]Samples are analyzed for the listed analyte(s) in accordance with the referenced method number or equivalent. Standard approved methods do not exist for radiological parameters; therefore, method numbers are not listed for these analytes.

Table 7. Groundwater elevations 2025

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
F-15G	1	659.54	660.89
F-16B	1	659.56	660.89
F-17G	1	659.76	660.72
F-18B	1	647.92	648.44
F-19G	1	659.92	661.51
F-20B	1	660.26	661.73
F-23G	1	656.19	656.60
F-24B	1	655.27	656.04
F-25G	1	656.03	656.66
F-26B	1	640.52	640.12
F-27G	1	642.81	642.81
F-28B	1	641.79	641.69
F-29B	1	635.87	635.97
F-30G	1	656.83	657.49
PK-01G	1	637.82	637.52
PK-03B	1	635.52	634.87
PK-05B	1	630.36	629.40
PK-07G	1	655.41	654.82
PK-08G	1	655.67	655.12
PK-09G	1	656.22	655.77
PK-10G	1	656.02	655.28
PK-11G	1	656.26	655.55
PK-15B	1	629.78	628.55
PK-17B	1	628.12	625.52
PK-18B	1	631.75	631.61
PK-19B	1	625.26	621.11
PK-20B	1	626.69	624.35
PK-21B	1	630.69	627.89
STSW-101G	1	649.41	647.44
STSW-102G	1	648.15	648.05
STSW-103G	1	656.54	655.97
WD-PZ01G	1	659.93	660.54
WD-PZ02G	1	660.18	660.98
WD-PZ03G	1	656.32	655.72
WP-01G	1	647.07	646.93
WP-02G	1	647.43	647.21
WP-03G	1	646.48	646.10
WP-04G	1	646.82	646.71
WP-05G	1	646.52	645.88
WP-06G	1	646.00	645.65
WP-07G	1	645.82	645.08
X120-02G	1	656.17	656.23
X120-03G	1	655.92	655.86
X120-05G	1	653.62	652.48
X120-06B	1	645.35	644.58
X120-08G	1	644.30	644.25
X120-09G	1	651.08	649.21
X120-10G	1	648.59	647.19
X120-11G	1	650.63	648.75

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X230K-04B	1	642.13	641.56
X230K-06G	1	652.88	651.57
X230K-08B	1	640.57	640.42
X230K-10G	1	651.51	650.60
X230K-13B	1	646.79	646.99
X230K-14G	1	653.50	651.29
X230K-15G	1	653.79	652.06
X231B-07G	1	649.85	650.47
X231B-10G	1	NM	645.72
X231B-11G	1	NM	651.59
X231B-12G	1	652.84	650.90
X231B-13G	1	652.72	650.39
X231B-15G	1	652.72	649.62
X231B-16G	1	652.96	651.05
X231B-19G	1	651.16	651.47
X231B-23G	1	651.86	649.32
X231B-24B	1	646.73	647.80
X231B-27G	1	653.99	653.03
X231B-28G	1	655.00	654.32
X231B-29G	1	656.07	657.53
X231B-32B	1	644.99	645.22
X231B-33B	1	644.81	644.98
X231B-34B	1	644.88	645.18
X231B-36G	1	658.86	659.72
X231B-37G	1	651.05	649.70
X231B-38G	1	653.52	652.69
X231B-39G	1	653.47	651.96
X622-PZ01G	1	652.19	650.01
X622-PZ02G	1	648.55	647.34
X622-PZ03G	1	648.15	647.43
X710-01G	1	660.02	661.79
X710-06G	1	661.31	663.06
X710-07G	1	660.56	662.32
X747F-01G	1	661.99	663.59
X747F-03G	1	662.33	664.04
X749-01G	1	654.70	653.54
X749-02G	1	654.05	652.32
X749-03G	1	652.88	650.92
X749-04G	1	655.48	655.02
X749-05G	1	654.46	653.32
X749-06G	1	653.82	652.27
X749-07G	1	645.71	645.50
X749-08G	1	649.07	649.18
X749-09GA	1	650.49	649.98
X749-102G	1	646.00	645.59
X749-103G	1	645.80	647.11
X749-104G	1	644.88	644.56

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X749-105G	1	646.93	645.83
X749-106G	1	651.13	648.83
X749-107G	1	652.83	647.82
X749-108G	1	650.37	648.61
X749-109G	1	647.70	647.88
X749-10GA	1	651.05	650.13
X749-110G	1	648.22	647.21
X749-111G	1	642.10	Dry
X749-113G	1	649.06	648.23
X749-114G	1	643.84	643.44
X749-115G	1	656.00	655.47
X749-117G	1	650.52	651.37
X749-119G	1	650.02	650.92
X749-120G	1	648.73	649.76
X749-121G	1	649.09	650.00
X749-122G	1	646.30	646.96
X749-123G	1	NM	655.48
X749-124G	1	655.80	655.58
X749-125G	1	655.86	655.59
X749-126G	1	655.75	655.35
X749-13G	1	648.78	648.38
X749-14B	1	620.98	618.34
X749-20G	1	651.34	649.16
X749-22G	1	645.94	644.28
X749-23G	1	648.00	646.80
X749-24G	1	645.39	643.31
X749-25G	1	648.78	648.59
X749-26G	1	652.74	650.43
X749-27G	1	654.85	651.28
X749-28G	1	654.53	651.55
X749-29G	1	654.49	652.14
X749-30G	1	654.67	652.05
X749-31G	1	654.54	651.06
X749-32G	1	654.66	650.86
X749-33G	1	654.40	650.15
X749-34G	1	647.62	648.11
X749-36G	1	652.90	650.27
X749-37G	1	652.76	649.58
X749-38G	1	652.40	648.80
X749-40G	1	655.40	654.65
X749-41G	1	651.83	650.84
X749-42G	1	649.81	648.22
X749-43G	1	Dry	Dry
X749-44G	1	645.98	645.41
X749-45G	1	646.49	645.71
X749-47B	1	638.82	637.65
X749-50B	1	633.47	632.86
X749-51B	1	633.86	632.16
X749-54B	1	631.86	628.94

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X749-57G	1	650.21	649.74
X749-58G	1	653.27	653.36
X749-59G	1	651.31	650.04
X749-60B	1	630.54	630.12
X749-61B	1	628.18	628.09
X749-62B	1	627.00	626.13
X749-63B	1	629.45	628.73
X749-64B	1	626.53	626.78
X749-66G	1	646.02	646.73
X749-67G	1	646.41	645.03
X749-68G	1	641.77	641.95
X749-96G	1	646.87	646.75
X749-97G	1	646.97	646.30
X749-98G	1	647.70	646.85
X749A-01G	1	656.26	657.17
X749A-02G	1	656.65	656.23
X749A-03G	1	656.39	655.23
X749A-04G	1	657.11	656.69
X749A-05G	1	657.47	656.51
X749A-06G	1	660.73	658.79
X749A-07G	1	660.60	660.93
X749A-09G	1	655.59	654.94
X749A-12G	1	657.68	658.89
X749A-13G	1	659.50	660.74
X749A-14G	1	659.83	659.58
X749A-15G	1	659.27	659.07
X749A-16G	1	658.78	658.49
X749A-17G	1	656.62	657.49
X749A-18G	1	655.25	655.95
X749A-19G	1	652.61	652.57
X749-BG1GA	1	655.89	655.32
X749-BG4GA	1	657.84	652.73
X749-BG6G	1	650.08	649.06
X749-BG9G	1	649.87	649.69
X749-PZ01G	1	641.29	634.35
X749-PZ02G	1	644.16	Dry
X749-PZ03G	1	645.93	645.71
X749-PZ04G	1	646.98	646.15
X749-PZ05G	1	646.90	645.54
X749-PZ06G	1	647.44	647.14
X749-PZ07G	1	651.80	650.22
X749-PZ08G	1	650.59	650.01
X749-PZ09G	1	650.35	651.21
X749-PZ10G	1	651.50	650.17
X749-PZ11G	1	647.36	648.19
X749-PZ12G	1	646.50	647.35
X749-PZ13G	1	646.19	646.84
X749-PZ14G	1	648.82	648.94
X749-PZ15G	1	643.04	642.79
X749-PZ16G	1	642.30	641.39
X760-05G	1	656.27	657.51
X760-06B	1	650.68	651.94

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
F-06B	2	643.72	643.90
LBC-PZ01G	2	639.65	638.35
LBC-PZ02G	2	637.10	636.40
LBC-PZ04G	2	641.08	640.93
LBC-PZ06G	2	634.25	635.53
LBC-PZ07G	2	633.05	632.22
LBC-PZ09G	2	638.07	634.81
PRCL-01G	2	657.97	659.20
X230J7-01GA	2	652.23	653.40
X230J7-02GA	2	649.10	650.40
X230J7-03GA	2	647.84	648.23
X230J7-04GA	2	644.83	644.56
X633-03G	2	675.14	674.97
X633-09B	2	642.30	642.85
X633-10G	2	668.45	667.68
X633-11G	2	666.90	668.73
X700-01G	2	657.43	658.34
X700-02G	2	656.37	657.22
X700-03G	2	658.40	659.86
X700-04G	2	658.49	659.34
X700-05G	2	659.14	659.93
X700-06G	2	659.68	660.14
X701-01G	2	660.08	661.03
X701-02G	2	660.39	661.27
X701-06G	2	659.68	660.78
X701-117GA	2	661.55	659.49
X701-11G	2	660.47	661.55
X701-127G	2	656.54	656.61
X701-128G	2	654.28	653.50
X701-130G	2	660.24	661.07
X701-140G	2	649.68	648.86
X701-141G	2	650.93	646.57
X701-142G	2	637.75	636.47
X701-143G	2	638.33	635.63
X701-144G	2	637.84	636.61
X701-15G	2	637.39	635.64
X701-16G	2	637.11	636.28
X701-19G	2	655.72	654.33
X701-20G	2	652.62	651.98
X701-21G	2	657.32	657.41
X701-23G	2	658.14	658.50
X701-24G	2	637.43	636.20
X701-25G	2	656.31	656.27
X701-26G	2	659.11	659.96
X701-27G	2	658.68	659.99
X701-28GA	2	658.95	660.22
X701-30G	2	659.39	660.42
X701-31G	2	658.48	659.82
X701-32G	2	642.21	640.86

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X701-38G	2	659.68	660.73
X701-40G	2	660.43	661.05
X701-42G	2	657.85	658.38
X701-44G	2	674.90	673.99
X701-45G	2	658.85	659.80
X701-46G	2	660.20	661.61
X701-47G	2	658.12	659.50
X701-48G	2	650.87	650.21
X701-49G	2	636.67	632.94
X701-58B	2	637.24	637.07
X701-59B	2	637.50	637.56
X701-60B	2	640.13	640.42
X701-61B	2	637.36	637.49
X701-66G	2	660.25	660.96
X701-68G	2	658.52	659.46
X701-69G	2	658.69	659.62
X701-70G	2	658.64	659.56
X701-77G	2	658.97	659.52
X701-79G	2	658.91	659.58
X701-BW1G	2	NM	NM
X701-BW2G	2	659.95	660.66
X701-BW3G	2	659.19	660.24
X701-BW4G	2	659.47	660.52
X701-EW121G	2	657.71	657.85
X701-EW122G	2	657.51	657.65
X701-IRMPZ01G	2	642.12	640.02
X701-IRMPZ02G	2	639.81	637.50
X701-IRMPZ03G	2	635.69	634.23
X701-IRMPZ04G	2	645.97	644.17
X701-IRMPZ05G	2	637.31	635.93
X701-IRMPZ06G	2	637.91	636.41
X701-IRMPZ07G	2	647.71	647.21
X701-IRMPZ08G	2	636.81	635.96
X701-TC01G	2	659.78	660.50
X701-TC03G	2	660.08	660.80
X701-TC05G	2	659.97	660.67
X701-TC10G	2	659.67	660.35
X701-TC17G	2	659.80	660.49
X701-TC22G	2	659.35	659.99
X701-TC28G	2	659.43	660.05
X701-TC48G	2	659.16	659.75
X701-TC54G	2	659.13	659.74
X701-TC61G	2	658.21	658.67
X701-TC67G	2	658.67	659.14
X705-01GA	2	654.47	655.21
X705-02G	2	655.40	656.05
X705-03G	2	658.90	659.60

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X705-07G	2	656.99	657.92
X705-08G	2	658.99	659.75
X705-09B	2	659.12	659.93
X705-10B	2	658.22	659.40
X720-01G	2	659.34	660.22
X720-02G	2	659.83	660.89
X720-04G	2	662.49	663.43
X720-05B	2	662.28	663.32
X720-06G	2	661.92	662.80
X720-07G	2	659.63	660.57
X720-08G	2	659.83	660.80
X720-09G	2	659.70	660.67
X744G-01G	2	659.58	660.64
X744G-02G	2	659.59	660.59
X744G-03G	2	659.29	660.22
DMRQ-01G	3	658.64	658.89
DMRQ-PZ02B	3	658.36	659.00
DMRQ-PZ03G	3	657.00	656.74
DMRQ-PZ04B	3	656.80	656.77
F-11G	3	670.28	668.48
F-12B	3	657.53	658.36
F-14B	3	659.66	660.03
F-22B	3	657.06	657.21
F-31G	3	660.56	661.27
F-32B	3	659.92	660.27
SASW-PZ301G	3	658.69	659.71
SASW-PZ302B	3	658.62	659.73
X230J3-05G	3	640.30	637.82
X230J3-06B	3	639.03	637.84
X230J3-07G	3	649.90	648.71
X230J3-08B	3	647.10	646.41
X230J3-PZ04G	3	645.85	645.33
X230J3-PZ05B	3	647.00	646.32
X326-04G	3	664.75	665.62
X326-PZ07G	3	661.80	663.00
X326-PZ08B	3	662.07	663.25
X330-02B	3	659.69	660.50
X330-03G	3	659.72	660.57
X330-06G	3	660.17	660.81
X330-PZ01G	3	660.00	660.84
X330-PZ04B	3	659.30	659.81
X330-PZ05G	3	659.30	659.92
X530A-01G	3	657.77	658.25
X530A-02B	3	656.59	656.49
X530A-03G	3	656.53	656.24
X616-02G	3	663.13	662.83
X616-05G	3	661.31	661.96
X616-09G	3	662.69	661.99
X616-10G	3	663.13	662.56
X616-11G	3	663.03	662.61

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X616-12G	3	661.47	661.78
X616-13G	3	662.59	662.23
X616-14G	3	660.38	660.67
X616-16G	3	662.38	661.60
X616-17G	3	661.83	662.34
X616-18B	3	663.13	662.73
X616-19B	3	659.86	660.71
X616-20B	3	661.97	661.43
X616-21G	3	655.84	655.92
X616-22G	3	658.31	657.28
X616-24B	3	656.51	656.88
X616-25G	3	652.92	653.10
X616-26G	3	663.24	663.25
X616-28B	3	663.26	663.02
X6619-03G	3	654.37	653.29
X6619-04B	3	654.41	653.68
X740-11G	3	651.75	650.97
X740-12B	3	654.78	655.07
X740-13G	3	650.68	651.19
X740-24B	3	658.04	658.59
X740-25G	3	659.81	659.61
X740-26B	3	656.64	657.34
X740-27G	3	653.22	653.70
X740-28G	3	655.52	656.30
X740-29G	3	654.34	655.30
X740-30G	3	657.76	658.46
X744N-PZ02B	3	657.16	658.01
X745A-01G	3	663.99	664.93
F-04B	4	655.20	655.80
F-08B	4	639.93	638.96
F-09G	4	657.29	659.19
F-10B	4	658.41	658.99
NDD-04B	4	647.71	648.10
RSY-01G	4	655.67	655.88
RSY-02B	4	653.75	654.27
X333-04G	4	659.12	659.59
X333-05B	4	654.06	654.14
X333-06G	4	660.83	661.11
X342C-01G	4	655.80	657.29
X533-01B	4	649.04	649.46
X533-03G	4	657.89	657.67
X611-01B	4	625.55	624.54
X611-02BA	4	628.58	628.06
X611-04BA	4	634.63	633.91
X630-01G	4	658.55	659.17
X630-02G	4	659.03	659.33
X630-03G	4	658.27	659.18
X633-06B	4	647.35	647.83

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X734-01G	4	583.39	582.88
X734-03G	4	574.95	574.74
X734-04G	4	581.74	581.41
X734-05B	4	580.91	580.55
X734-06G	4	593.29	593.32
X734-10G	4	645.50	645.74
X734-14G	4	641.48	641.37
X734-15G	4	641.42	641.41
X734-16G	4	642.65	639.78
X734-17B	4	591.94	592.08
X734-18G	4	611.02	611.18
X734-20G	4	639.07	Dry
X734-22G	4	645.52	645.71
X734-23G	4	636.77	636.74
X735-01G	4	643.26	644.93
X735-01GA	4	644.71	645.57
X735-02GA	4	643.98	644.50
X735-03G	4	642.99	643.40
X735-03GA	4	643.47	644.55
X735-04GA	4	644.84	644.04
X735-05GA	4	641.98	641.22
X735-06GAA	4	643.98	642.69
X735-08G	4	583.01	583.62
X735-12G	4	643.14	642.74
X735-13GA	4	644.75	644.46
X735-16B	4	644.76	644.88
X735-17B	4	644.15	644.52
X735-18B	4	643.23	644.35
X735-19G	4	644.47	644.77
X735-20B	4	644.48	644.85
X735-21G	4	644.11	644.64
X737-04G	4	644.87	645.23
X737-05B	4	644.86	645.26
X737-06G	4	645.31	646.08
X737-07B	4	645.16	645.93
X737-09G	4	648.05	648.91
X745F-01G	4	653.76	654.87
X745F-02B	4	653.98	654.37
X752-01G	4	653.33	653.80
X780-C01-01B	4	638.55	638.72
X780-C02-03B	4	635.31	635.57
X780-C03-06B	4	631.69	632.10
X780-C04-08B	4	628.10	628.54
X780-C05-10B	4	625.39	625.71
X780-C06-12BA	4	623.54	623.82
X780-C07-14B	4	625.50	625.81
X780-C09-19B	4	630.76	631.30

Table 7. Groundwater elevations 2025 (continued)

Well number	Quadrant	First quarter elevation (ft above MSL)	Third quarter elevation (ft above MSL)
X780-C15-32B	4	640.46	640.55
X780-C16-34B	4	644.07	644.45
X780-C17-35B	4	643.60	644.07
X780-C18-36B	4	642.93	643.37
X780-C19-37B	4	642.95	643.48
X780-C20-39B	4	643.85	644.78
X780-C21-40B	4	646.58	647.61
X780-C22-41G	4	647.63	649.18
BSIA1-06B	BG	619.82	620.23
BSIA1-06G	BG	659.53	656.75
BSIA1-07B	BG	623.59	624.16
BSIA1-07G	BG	647.42	647.37

MSL – mean sea level. NM – not measured, could not access due to safety issues. Dry – water, if present, below level of pump. BG – background (off site south of property boundary).

Table 8. Contaminants of concern (COCs) and preliminary remediation goals (PRGs) for selected groundwater monitoring areas

COC	PRG (µg/L unless noted)
X-749/X-120 Gallia groundwater (no COCs are identified in Berea groundwater)	
VOCs/SVOCs	
1,1,1-Trichloroethane	200
1,1,2,2-Tetrachloroethane	0.83
1,1,2-Trichloroethane	5
1,1-Dichloroethene	7
1,2,3-Trichloropropane	0.0379
1,2-Dibromo-3-chloropropane	0.2
1,2-Dichloroethane	5
1,2-Dichloroethene	900
1,4-Dioxane	25.9
Acrylonitrile	0.431
Benzene	5
Bromoform	100
Carbon tetrachloride	5
Chloroform	100
cis-1,2-Dichloroethene	70
Methylene chloride	5
Tetrachloroethene	5
trans-1,2-Dichloroethene	100
Trichloroethene	5
Vinyl chloride	2
Metals	
Chromium	100

Source: Table 6, *U.S. DOE Portsmouth Quadrant I Decision Dsocument* (Ohio EPA 2001).

Table 8. Contaminants of concern (COCs) and preliminary remediation goals (PRGs) for selected groundwater monitoring areas (continued)

COC	PRG (µg/L unless noted)
PK Landfill (Gallia and Berea groundwater)	
VOCs	
1,1,1-Trichloroethane	200
1,1,2,2-Tetrachloroethane	0.83
1,1,2-Trichloroethane	5
1,1-Dichloroethane	5860
1,1-Dichloroethene	7
1,2-Dichlorobenzene	600
1,2-Dichloroethane	5
1,2-Dimethylbenzene	10,000
1,4-Dichlorobenzene	75
2-Butanone	53,800
4-Methyl-2-pentanone	6360
Acetone	10,200
Benzene	5
Bromodichloromethane	100
Bromoform	100
Bromomethane	140
Carbon disulfide	6270
Carbon tetrachloride	5
Chlorobenzene	100
Chloroethane	246,000
Chloroform	100
Chloromethane	13.4
cis-1,2-Dichloroethene	70
Dibromochloromethane	3.12
Ethylbenzene	700
m,p-Xylenes	10,000
Methylene chloride	5
Tetrachloroethene	5
Toluene	1000
trans-1,2-Dichloroethene	100
Trichloroethene	5
Trichlorofluoromethane	12,100
Vinyl chloride	2

Source: VOCs, without further definition, are identified as detected at the PK Landfill in the *Decision Document Peter Kiewit Landfill* (Ohio EPA 1996a). The listed VOCs are monitored at the PK Landfill per the IGWMP. PRGs provided in Appendix C, Table C.3 in the *Quadrant I Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 2000a).

Table 8. Contaminants of concern (COCs) and preliminary remediation goals (PRGs) for selected groundwater monitoring areas (continued)

COC	PRG (µg/L unless noted)
Quadrant I Groundwater Investigative (5-Unit) Area Gallia groundwater (COCs for Berea groundwater are noted below)	
VOCs/SVOCs	
1,1,1-Trichloroethane	200
1,1,2,2-Tetrachloroethane	0.8
1,1,2-Trichloroethane	5
1,1-Dichloroethene	7
1,2-Dichlorethane	5
1,2-Dibromo-3-chloropropane	0.2
Benzene	5
Bis(2-ethylhexyl)phthalate	6
Chloroform	100
cis-1,2-Dichlorethene	70
Methylene chloride	5
Tetrachloroethene	5
Trichloroethene (also a COC in Berea groundwater)	5
Vinyl chloride	2
Metals	
Manganese	14,300

Source: Table 4, *U.S. DOE Portsmouth Quadrant I Decision Document* (Ohio EPA 2001).

Table 8. Contaminants of concern (COCs) and preliminary remediation goals (PRGs) for selected groundwater monitoring areas (continued)

COC	PRG (µg/L unless noted)
X-701B Gallia groundwater (COCs for Berea groundwater are noted below)	
VOCs/SVOCs	
1,1,1-Trichloroethane	200
1,1,2,2-Tetrachloroethane	0.83
1,1,2-Trichloroethane	5
1,1-Dichloroethene	7
1,2-Dichloroethane	5
1,2-Dichloroethene (*cis* and *trans* forms)	900
2-Butanone	53,800
2,4-Dinitrotoluene (Berea COC only)	0.397
Acetone	10,200
Acrolein (Berea COC only)	1.03
Bis(2-ethylhexyl)phthalate	6
Bromodichloromethane	100
Carbon tetrachloride	5
Chloroform	100
Hexachlorobenzene (Berea COC only)	1
Hexachlorobutadiene (Berea COC only)	3.7
Methylene chloride (also a Berea COC)	5
Pentachlorophenol (Berea COC only)	1
Tetrachloroethene	5
Toluene	1000
Trichloroethene (also a Berea COC)	5
Vinyl chloride	2
Metals	
Arsenic	92
Barium	2000
Beryllium	6.5
Cadmium	6.5
Chromium	100
Copper	21
Lead	50
Manganese	14,300
Nickel	100
Silver	50
Thallium	10.5
Radionuclides	
Neptunium (pCi/L)	0.54
Radium (pCi/L)	0.65
Technetium (pCi/L)	3790
Thorium (pCi/L)	2.5-4.9
Uranium (µg/L)	20

Source: Tables 2 and 3, *Ohio EPA's Decision Document for the X-701B SWMU in Quadrant II of the US DOE Portsmouth Facility Piketon, Ohio* (Ohio EPA 2003).

Table 8. Contaminants of concern (COCs) and preliminary remediation goals (PRGs) for selected groundwater monitoring areas (continued)

COC	PRG (µg/L unless noted)
X-616 Former Chromium Sludge Surface Impoundments (Gallia and Berea groundwater)	
VOCs	
1,1,1-Trichloroethane	200
1,1,2,2-Tetrachloroethane	0.83
1,1,2-Trichloroethane	5
1,1-Dichloroethane	5860
1,1-Dichloroethene	7
1,2-Dichlorobenzene	600
1,2-Dichloroethane	5
1,2-Dimethylbenzene	10,000
1,4-Dichlorobenzene	75
2-Butanone	53,800
4-Methyl-2-pentanone	6360
Acetone	10,200
Benzene	5
Bromodichloromethane	100
Bromoform	100
Bromomethane	140
Carbon disulfide	6270
Carbon tetrachloride	5
Chlorobenzene	100
Chloroethane	246,000
Chloroform	100
Chloromethane	13.4
cis-1,2-Dichloroethene	70
Dibromochloromethane	3.12
Ethylbenzene	700
m,p-Xylenes	10,000
Methylene chloride	5
Tetrachloroethene	5
Toluene	1000
trans-1,2-Dichloroethene	100
Trichloroethene	5
Trichlorofluoromethane	12,100
Vinyl chloride	2
Metals	
Beryllium (Gallia/Berea PRGs)	6.5/7
Cadmium (Gallia/Berea PRGs)	6.5/7
Chromium	100
Manganese	14,300
Nickel (Gallia/Berea PRGs)	100/840

Source: The X-616 is in post-closure monitoring. The IGWMP requires monitoring of the listed COCs. PRGs provided in Appendix C, Table C.3 in the *Quadrant III Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 1998a).

Table 8. Contaminants of concern (COCs) and preliminary remediation goals (PRGs) for selected groundwater monitoring areas (continued)

COC	PRG (µg/L unless noted)
X-740 Former Waste Oil Handling Facility (Gallia and Berea groundwater)	
VOCs	
1,1,1-Trichloroethane	200
1,1-Dichloroethene	7
1,2-Dichloroethane	5
Tetrachloroethene	5
Trichloroethene	5
Source: Table 1, *Ohio Environmental Protection Agency's Decision Document for Quadrant III of the Portsmouth Gaseous Diffusion Plant* (Ohio EPA 1999a).	
X-611A Former Lime Sludge Lagoons (Gallia and Berea groundwater)	
Metals	
Beryllium (Gallia/Berea PRGs)	6.5/7
Chromium	100
Source: COCs provided in *Decision Document for the X-611A SWMU* (Ohio EPA 1996b). PRGs provided in Appendix C, Table C.3 in the *Quadrant IV Cleanup Alternatives Study/Corrective Measures Study Final Report* (DOE 1998b).	
X-734 Gallia groundwater (COCs for Berea groundwater are noted below)	
VOCs	
cis-1,2-Dichloroethene	70
Trichloroethene	5
Vinyl chloride	2
Metals	
Antimony	36.5
Arsenic	92.0
Beryllium	6.5
Chromium	100
Lead (Gallia/Berea PRGs)	16/10
Nickel	100
Source: Table 1, *The Decision Document for the X-734 Landfill Area In Quadrant IV of the Portsmouth Gaseous Diffusion Plant* (Ohio EPA 1999b).	

Table 9. Groundwater final remediation levels (FRLs) for deferred units

Chemical	FRL (µg/L unless noted)
VOCs/SVOCs	
1,1,2,2-Tetrachloroethane	0.4
1,1-Dichloroethene	7
1,2-Dichloroethene (*cis* and *trans* forms)	16.3
1,4-Dioxane	3.9
Bromodichloromethane	0.7
Carbon tetrachloride	5
Chloroform	1.1
Dibromochloromethane	0.84
Fluoranthene	0.2
Naphthalene	0.2
Pyrene	0.2
Tetrachloroethene	5
Trichloroethene	5
Vinyl chloride	2
Metals	
Aluminum	2,000
Antimony	6
Arsenic	10
Beryllium	4
Cadmium	5
Chromium, hexavalent	0.2
Chromium, trivalent	2,250
Chromium	100
Cobalt	0.60
Fluoride	79.9
Iron	1,400
Lead	15
Manganese	43.3
Nickel	39.2
Silver	9.4
Thallium	2
Vanadium	8.64
Zinc	600
Radionuclides	
Uranium	30
Uranium-233/234 (pCi/L)	10.2
Uranium-235/236 (pCi/L)	46.6
Uranium-238 (pCi/L)	9.9

Source: Attachment 6, Deferred Units Decision Document (Ohio EPA 2023).

APPENDIX A

QUADRANT I SAMPLING RESULTS

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ANALYTICAL DATA TABLES
X-749 CONTAMINATED MATERIALS DISPOSAL FACILITY/
X-120 FORMER TRAINING FACILITY

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 = or 0.16U U

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X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
F-27G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.73J	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.72J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			1.46	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1579	
Depth to Water	ft			19.75	
Dissolved Oxygen	mg/L			1.12	
pH	Std Unit			6.28	
Temperature	deg C			16.1	
Turbidity	NTU			2.67	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter		Fourth Quarter
PK-07G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L			0.333U	0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	0.333U	
1,1-Dichloroethane	µg/L			0.333U	0.333U	
1,1-Dichloroethene	µg/L			0.333U	0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	0.333U	
1,2-Dichloroethane	µg/L			0.333U	0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	0.333U	
2-Butanone	µg/L			1.67U	1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	1.67U	
Acetone	µg/L			1.74U	1.74U	
Benzene	µg/L			0.333U	0.333U	
Bromodichloromethane	µg/L			0.333U	0.333U	
Bromoform	µg/L			0.333U	0.333U	
Bromomethane	µg/L			0.337U	0.337U	
Carbon disulfide	µg/L			1.67U	1.67U	
Carbon tetrachloride	µg/L			0.333U	0.333U	
Chlorobenzene	µg/L			0.333U	0.333U	
Chloroethane	µg/L			0.333U	0.333U	
Chloroform	µg/L			0.333U	0.333U	
Chloromethane	µg/L			0.333U	0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	0.333U	
Dibromochloromethane	µg/L			0.333U	0.333U	
Ethylbenzene	µg/L			0.333U	0.333U	
m,p-Xylenes	µg/L			0.5U	0.5U	
Methylene chloride	µg/L			3.25J	3.21J	
Tetrachloroethene	µg/L			0.333U	0.333U	
Toluene	µg/L			0.333U	0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	0.333U	
Trichloroethene	µg/L			0.333U	0.333U	
Trichlorofluoromethane	µg/L			0.333U	0.333U	
Vinyl chloride	µg/L			0.333U	0.333U	
Field Measurements						
Conductivity	µS/cm			467.6		
Depth to Water	ft			15.05		
Dissolved Oxygen	mg/L			0.17		
pH	Std Unit			5.91		
Temperature	deg C			15.6		
Turbidity	NTU			1.03		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-08G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			3.12J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			10.9	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1097	
Depth to Water	ft			14.85	
Dissolved Oxygen	mg/L			0.74	
pH	Std Unit			5.72	
Temperature	deg C			15.8	
Turbidity	NTU			2.17	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-09G					
Metals					
Beryllium	µg/L			0.2U	
Cadmium	µg/L			0.3U	
Chromium	µg/L			55.9J	
Manganese	µg/L			4.15J	
Nickel	µg/L			9.35	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			4.62	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			3.34J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			206	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-09G					
Field Measurements					
Conductivity	µS/cm			1429	
Depth to Water	ft			14.17	
Dissolved Oxygen	mg/L			2.68	
pH	Std Unit			5.98	
Temperature	deg C			16.8	
Turbidity	NTU			2.33	
STSW-101G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.82J J		0.82J J
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		5.79 =		7.04 =
1,1-Dichloroethene	µg/L		13.1 =		14.8 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.91J J		1.21 =
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.36J UJ		0.49J J
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		1.99 =		2.65 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.39J J
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		16.9 =		20.3 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
STSW-101G					
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		1.81U U		
Uranium	µg/L		0.941 =		
Uranium-233/234	pCi/L		0.151U U		
Uranium-235/236	pCi/L		0.0109U U		
Uranium-238	pCi/L		0.315 =		
Field Measurements					
Conductivity	µS/cm		511		547
Depth to Water	ft		9.78		14.89
Dissolved Oxygen	mg/L		1.3		0.3
pH	Std Unit		6.38		6.2
Temperature	deg C		12.7		16.2
Turbidity	NTU		1.78		0.96
STSW-102G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		1.15 =		1 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		25.3 =		16.3 =
1,1-Dichloroethene	µg/L		12.8 =		8.31 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		7.14 =		5.25 =
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.94J UJ		0.68J J
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		6.11 =		4.96 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
STSW-102G					
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		59.9 =		38.5 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		17.7 =		
Uranium	µg/L		1.96 =		
Uranium-233/234	pCi/L		1.14 =		
Uranium-235/236	pCi/L		0.00891U U		
Uranium-238	pCi/L		0.659 =		
Field Measurements					
Conductivity	µS/cm		887		706
Depth to Water	ft		10.04		14.78
Dissolved Oxygen	mg/L		0.82		0.09
pH	Std Unit		6.51		6.3
Temperature	deg C		15.1		15
Turbidity	NTU		2.09		1.48
WP-01G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U UJ 0.333U UJ		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
2-Butanone	µg/L		1.67U U 1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		1.67U U
Acetone	µg/L		1.74U UJ 1.74U UJ		1.74U U
Benzene	µg/L		0.333U U 0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U 0.333U U		0.333U U
Bromoform	µg/L		0.333U U 0.333U U		0.333U U
Bromomethane	µg/L		0.337U UJ 0.337U UJ		0.337U U
Carbon disulfide	µg/L		1.67U UJ 1.67U UJ		1.67U U
Carbon tetrachloride	µg/L		0.333U U 0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-01G					
Chlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
Chloroethane	µg/L		0.333U U 0.333U U		0.333U U
Chloroform	µg/L		0.333U U 0.333U U		0.333U U
Chloromethane	µg/L		0.333U U 0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U 0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U 0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U 0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U 0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U 0.333U U		0.333U U
Toluene	µg/L		0.333U U 0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U 0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		0.329U U -0.0447U U		
Uranium	µg/L		0.00796U U 000000723U		
Uranium-233/234	pCi/L		0.0626U U 0.0045U U		
Uranium-235/236	pCi/L		0.0172U U -0.0174U U		
Uranium-238	pCi/L		-0.022U U -0.0328U U		
Field Measurements					
Conductivity	µS/cm		426.1		397.8
Depth to Water	ft		16.95		19.86
Dissolved Oxygen	mg/L		0.29		0.92
pH	Std Unit		6.16		6.11
Temperature	deg C		14.2		14.8
Turbidity	NTU		1.96		5.33
WP-02G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U UJ		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-02G					
Acetone	µg/L		1.74U UJ		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U UJ		0.337U U
Carbon disulfide	µg/L		1.67U UJ		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		-0.167U U		
Uranium	µg/L		0.159U U		
Uranium-233/234	pCi/L		0.0124U U		
Uranium-235/236	pCi/L		0.012U U		
Uranium-238	pCi/L		0.0516U U		
Field Measurements					
Conductivity	µS/cm		344.8		340.6
Depth to Water	ft		13.56		17.6
Dissolved Oxygen	mg/L		1.55		2.03
pH	Std Unit		6.36		6.37
Temperature	deg C		16.6		14.1
Turbidity	NTU		3.4		1.75
WP-03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-03G					
1,1-Dichloroethene	µg/L	0.333U	0.333U UJ	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U UJ	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U UJ	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U UJ	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U UJ	1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	1.66J	0.5U U	6.97J UJ	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U UJ	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Radionuclides					
Technetium-99	pCi/L		1.64U U		
Uranium	µg/L		0.319U U		
Uranium-233/234	pCi/L		0.0548U U		
Uranium-235/236	pCi/L		-0.0418U U		
Uranium-238	pCi/L		0.107U U		
Field Measurements					
Conductivity	µS/cm	166.8	165	169.1	172.2
Depth to Water	ft	15.6	15.68	18.08	19.02
Dissolved Oxygen	mg/L	6	4.07	4.04	4.34
pH	Std Unit	6	5.85	5.84	5.93
Temperature	deg C	13.3	13.1	14.2	14.9

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-03G					
Turbidity	NTU	1.75	2.16	3.95	1.79
WP-04G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,1-Dichloroethene	µg/L		0.333U UJ		0.333U U 0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U 0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U 0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U 0.333U U
2-Butanone	µg/L		1.67U U		1.67U U 1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U 1.67U U
Acetone	µg/L		1.74U UJ		1.74U U 1.74U U
Benzene	µg/L		0.333U U		0.333U U 0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U 0.333U U
Bromoform	µg/L		0.333U U		0.333U U 0.333U U
Bromomethane	µg/L		0.337U UJ		0.337U U 0.337U U
Carbon disulfide	µg/L		1.67U UJ		1.67U U 1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U 0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U 0.333U U
Chloroethane	µg/L		0.333U U		0.333U U 0.333U U
Chloroform	µg/L		0.333U U		0.333U U 0.333U U
Chloromethane	µg/L		0.333U U		0.333U U 0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U 0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U 0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U 0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U 0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U 0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U 0.333U U
Toluene	µg/L		0.333U U		0.333U U 0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U 0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U 0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U 0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U 0.333U U
Radionuclides					
Technetium-99	pCi/L		0.74U U		
Uranium	µg/L		0.0413U U		
Uranium-233/234	pCi/L		0.0466U U		
Uranium-235/236	pCi/L		0.0894U U		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-04G					
Uranium-238	pCi/L		-0.00846U U		
Field Measurements					
Conductivity	µS/cm		324.2		323.5
Depth to Water	ft		15.36		18.23
Dissolved Oxygen	mg/L		1.29		1.98
pH	Std Unit		6.08		6.02
Temperature	deg C		14.8		14
Turbidity	NTU		1.56		2.3
WP-05G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U UJ		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U UJ		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U UJ		0.337U U
Carbon disulfide	µg/L		1.67U UJ		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-05G					
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		1.3U U		
Uranium	µg/L		0U U		
Uranium-233/234	pCi/L		-0.0199U U		
Uranium-235/236	pCi/L		-0.00603U U		
Uranium-238	pCi/L		-0.0293U U		
Field Measurements					
Conductivity	µS/cm		147.1		155.3
Depth to Water	ft		19.44		22.97
Dissolved Oxygen	mg/L		5.74		5.55
pH	Std Unit		5.83		5.97
Temperature	deg C		12.9		13.8
Turbidity	NTU		3.01		1.24
WP-06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U UJ		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U UJ		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U UJ		0.337U U
Carbon disulfide	µg/L		1.67U UJ		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-06G					
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		1.85U U		
Uranium	µg/L		0.434U U		
Uranium-233/234	pCi/L		0.0488U U		
Uranium-235/236	pCi/L		-0.0255U U		
Uranium-238	pCi/L		0.146U U		
Field Measurements					
Conductivity	µS/cm		144.8		152.3
Depth to Water	ft		15.55		18.68
Dissolved Oxygen	mg/L		4.2		4.52
pH	Std Unit		5.84		5.95
Temperature	deg C		12.8		14.5
Turbidity	NTU		29.2		664
WP-07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U UJ	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U UJ	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U UJ	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U UJ	1.67U U	1.67U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WP-07G					
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	1.88J	0.5U U	6.87J UJ	0.5*U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Radionuclides					
Technetium-99	pCi/L		1.59U U		
Uranium	µg/L		0.262JU UJ		
Uranium-233/234	pCi/L		0.039U U		
Uranium-235/236	pCi/L		0.0193U U		
Uranium-238	pCi/L		0.085JU UJ		
Field Measurements					
Conductivity	µS/cm	135.1	134.6	136.6	132.2
Depth to Water	ft	9.23	9.61	11.73	12.56
Dissolved Oxygen	mg/L	4.16	2.57	3.62	2.78
pH	Std Unit	5.8	5.56	5.68	5.67
Temperature	deg C	11.1	12.3	16.1	15.9
Turbidity	NTU	3.3	3.7	3.04	1.98
X120-03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-03G					
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.73J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1136	
Depth to Water	ft			14.25	
Dissolved Oxygen	mg/L			0.24	
pH	Std Unit			6.09	
Temperature	deg C			15.5	
Turbidity	NTU			1.07	
X120-05G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-05G					
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.68J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			16.8	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			650	
Depth to Water	ft			13.26	
Dissolved Oxygen	mg/L			1.21	
pH	Std Unit			6.11	
Temperature	deg C			15.6	
Turbidity	NTU			8.43	
X120-06B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-06B					
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			538	
Depth to Water	ft			19.3	
Dissolved Oxygen	mg/L			1.97	
pH	Std Unit			7.75	
Temperature	deg C			16.6	
Turbidity	NTU			9.71	
X120-08G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.74J	0.65J
1,1,2,2-Tetrachloroethane	µg/L			0.333U	0.333U
1,1,2-Trichloroethane	µg/L			0.333U	0.333U
1,1-Dichloroethane	µg/L			2.96	3.03
1,1-Dichloroethene	µg/L			10.4	10.7
1,2-Dichlorobenzene	µg/L			0.333U	0.333U
1,2-Dichloroethane	µg/L			0.333U	0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-08G					
1,2-Dimethylbenzene	µg/L			0.333U 0.333U	
1,4-Dichlorobenzene	µg/L			0.333U 0.333U	
2-Butanone	µg/L			1.67U 1.67U	
4-Methyl-2-pentanone	µg/L			1.67U 1.67U	
Acetone	µg/L			1.74U 1.74U	
Benzene	µg/L			0.333U 0.333U	
Bromodichloromethane	µg/L			0.333U 0.333U	
Bromoform	µg/L			0.333U 0.333U	
Bromomethane	µg/L			0.337U 0.337U	
Carbon disulfide	µg/L			1.67U 1.67U	
Carbon tetrachloride	µg/L			0.333U 0.333U	
Chlorobenzene	µg/L			0.333U 0.333U	
Chloroethane	µg/L			0.333U 0.333U	
Chloroform	µg/L			0.39J 0.4J	
Chloromethane	µg/L			0.333U 0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U 0.333U	
Dibromochloromethane	µg/L			0.333U 0.333U	
Ethylbenzene	µg/L			0.333U 0.333U	
m,p-Xylenes	µg/L			0.5U 0.5U	
Methylene chloride	µg/L			0.59J 0.64J	
Tetrachloroethene	µg/L			0.333U 0.333U	
Toluene	µg/L			0.333U 0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U 0.333U	
Trichloroethene	µg/L			6.3 6.29	
Trichlorofluoromethane	µg/L			0.333U 0.333U	
Vinyl chloride	µg/L			0.333U 0.333U	
Radionuclides					
Technetium-99	pCi/L			0.0154U U 1.95U U	
Uranium	µg/L			0.0972U U 0.141U U	
Uranium-233/234	pCi/L			0.038U U 0.00735U U	
Uranium-235/236	pCi/L			0.00562U U 0.00925U U	
Uranium-238	pCi/L			0.0318U U 0.0474U U	
Field Measurements					
Conductivity	µS/cm			177.8	
Depth to Water	ft			18.35	
Dissolved Oxygen	mg/L			3	
pH	Std Unit			5.28	
Temperature	deg C			18.2	
Turbidity	NTU			18.8	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-09G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.83J	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			2.75	
1,1-Dichloroethene	µg/L			8.93	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.35J	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.66J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			6.41	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			262.6	
Depth to Water	ft			11.32	
Dissolved Oxygen	mg/L			0.41	
pH	Std Unit			5.85	
Temperature	deg C			16.8	
Turbidity	NTU			8.44	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-10G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.9J	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.39J	
1,1-Dichloroethane	µg/L			8.05	
1,1-Dichloroethene	µg/L			26.9	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.59J	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.72J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			7.19	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			204.2	
Depth to Water	ft			14.48	
Dissolved Oxygen	mg/L			2.66	
pH	Std Unit			5.22	
Temperature	deg C			17.6	
Turbidity	NTU			21.5	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-11G					
Metals					
Beryllium	µg/L		0.793 = 0.791 =		
Cadmium	µg/L		0.936J J 0.942J J		
Chromium	µg/L		4.32J J 4.55J J		
Manganese	µg/L		75.3 = 76.4 =		
Nickel	µg/L		37 = 36.8 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U
2-Butanone	µg/L		1.67U U 1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		1.67U
Acetone	µg/L		1.95J UJ 1.74U U		1.74U
Benzene	µg/L		0.333U U 0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U 0.333U U		0.333U
Bromoform	µg/L		0.333U U 0.333U U		0.333U
Bromomethane	µg/L		0.337U U 0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U 1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U 0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U 0.333U U		0.333U
Chloroethane	µg/L		0.333U U 0.333U U		0.333U
Chloroform	µg/L		0.333U U 0.333U U		0.88J
Chloromethane	µg/L		0.333U U 0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		2.57 = 2.33 =		3.85
Dibromochloromethane	µg/L		0.333U U 0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U 0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U 0.5U U		0.5U
Methylene chloride	µg/L		0.5U U 0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U 0.333U U		0.333U
Toluene	µg/L		0.333U U 0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U
Trichloroethene	µg/L		102 = 103 =		80.2
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U 0.333U U		0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X120-11G					
Field Measurements					
Conductivity	µS/cm		213.1		216.8
Depth to Water	ft		10.91		14.95
Dissolved Oxygen	mg/L		2.62		3.91
pH	Std Unit		4.87		5.26
Temperature	deg C		16.1		15.8
Turbidity	NTU		8.48		35.8
X231B-28G					
Metals					
Beryllium	µg/L			0.2QU UJ	
Cadmium	µg/L			0.3U U	
Chromium	µg/L			3U U	
Manganese	µg/L			23.1 =	
Nickel	µg/L			6.76 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.48J J	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U U	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-28G					
Methylene chloride	µg/L			0.5U U	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			1.63 =	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			1555	
Depth to Water	ft			12.77	
Dissolved Oxygen	mg/L			0.22	
pH	Std Unit			5.89	
Temperature	deg C			15.9	
Turbidity	NTU			1.14	
X749-04G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-04G					
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			2.77	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			25.1	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1249	
Depth to Water	ft			14.92	
Dissolved Oxygen	mg/L			0.56	
pH	Std Unit			5.98	
Temperature	deg C			15.4	
Turbidity	NTU			30.6	
X749-05G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.8J	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.66J	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			1.03	
Dibromochloromethane	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-05G					
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.96J	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			56	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1426	
Depth to Water	ft			28.61	
Dissolved Oxygen	mg/L			1.59	
pH	Std Unit			5.79	
Temperature	deg C			14.3	
Turbidity	NTU			8.71	
X749-06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		5.8 =		8.04 =
1,1,2,2-Tetrachloroethane	µg/L		1.67U U		0.333U U
1,1,2-Trichloroethane	µg/L		1.67U U		2.24 =
1,1-Dichloroethane	µg/L		54.1 =		122 =
1,1-Dichloroethene	µg/L		40.1 =		86.4 =
1,2-Dichlorobenzene	µg/L		1.67U U		0.333U U
1,2-Dichloroethane	µg/L		1.67U U		2.06 =
1,2-Dimethylbenzene	µg/L		1.67U U		0.333U U
1,4-Dichlorobenzene	µg/L		1.67U U		0.333U U
2-Butanone	µg/L		8.34U U		1.67U U
4-Methyl-2-pentanone	µg/L		8.34U U		1.67U U
Acetone	µg/L		8.72U U		1.74U U
Benzene	µg/L		1.67U U		0.333U U
Bromodichloromethane	µg/L		1.67U U		0.333U U
Bromoform	µg/L		1.67U U		0.333U U
Bromomethane	µg/L		1.69U U		0.337U U
Carbon disulfide	µg/L		8.34U U		1.67U U
Carbon tetrachloride	µg/L		1.67U U		0.333U U
Chlorobenzene	µg/L		1.67U U		0.333U U
Chloroethane	µg/L		1.67U U		0.333U U
Chloroform	µg/L		7.55 J		12.6 =
Chloromethane	µg/L		1.67U U		0.333U U
cis-1,2-Dichloroethene	µg/L		14 =		38 =

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-06G					
Dibromochloromethane	µg/L		1.67U U		0.333U U
Ethylbenzene	µg/L		1.67U U		0.333U U
m,p-Xylenes	µg/L		2.5U U		0.5U U
Methylene chloride	µg/L		2.5U U		1.38J UJ
Tetrachloroethene	µg/L		4J J		11.5 =
Toluene	µg/L		1.67U U		0.333U U
trans-1,2-Dichloroethene	µg/L		1.67U U		0.333U U
Trichloroethene	µg/L		223 =		395 =
Trichlorofluoromethane	µg/L		1.67U U		0.333U U
Vinyl chloride	µg/L		1.67U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		11.7 =		
Uranium	µg/L		0.0917U U		
Uranium-233/234	pCi/L		0.117U U		
Uranium-235/236	pCi/L		0.04U U		
Uranium-238	pCi/L		0.0246U U		
Field Measurements					
Conductivity	µS/cm		1494		1489
Depth to Water	ft		26.83		30.91
Dissolved Oxygen	mg/L		0.85		0.86
pH	Std Unit		5.8		5.83
Temperature	deg C		14.2		14.4
Turbidity	NTU		8.52		26.4
X749-07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		3.16 =		1.6 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		11.9 =		10.8 =
1,1-Dichloroethene	µg/L		13.9 =		8.88 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		7.72 =		6.65 =
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-07G					
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.66J UJ		0.53J J
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		5.32 =		4.62 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		1.77J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		42.7 =		34.9 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Americium-241	pCi/L		-0.0131U UJ		
Neptunium-237	pCi/L		-0.00998U U		
Plutonium-238	pCi/L		-0.0133U U		
Plutonium-239/240	pCi/L		0.0177U U		
Technetium-99	pCi/L		9.08 =		
Uranium	µg/L		0.761 UJ		
Uranium-233/234	pCi/L		0.219JU UJ		
Uranium-235/236	pCi/L		0.033U U		
Uranium-238	pCi/L		0.251 UJ		
Field Measurements					
Conductivity	µS/cm		628		634
Depth to Water	ft		33.39		36.55
Dissolved Oxygen	mg/L		3.6		3.22
pH	Std Unit		6.2		6.19
Temperature	deg C		14.3		15.3
Turbidity	NTU		174		32.5
X749-08G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		1.8 =		1.62 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.48J J		0.333U U
1,1-Dichloroethene	µg/L		1.93 =		1.83 =

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-08G					
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.4J J		0.38J J
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		1.9J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		3.77 =		3.5 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Americium-241	pCi/L		0.02U U		
Neptunium-237	pCi/L		-0.0475U U		
Plutonium-238	pCi/L		0.009U U		
Plutonium-239/240	pCi/L		0.0135U U		
Technetium-99	pCi/L		11.6 =		
Uranium	µg/L		0.329U U		
Uranium-233/234	pCi/L		0.271JU UJ		
Uranium-235/236	pCi/L		0.0248U U		
Uranium-238	pCi/L		0.107U U		
Field Measurements					
Conductivity	µS/cm		581		592
Depth to Water	ft		19.77		25.34

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-08G					
Dissolved Oxygen	mg/L		0.7		1.01
pH	Std Unit		6.09		6.01
Temperature	deg C		14		13.7
Turbidity	NTU		2.99		1.08
X749-09GA					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		1U U		
Nickel	µg/L		4.39 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		2.4 =		1.93 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.75J J		0.81J J
1,1-Dichloroethene	µg/L		1.89 =		1.96 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.41J J		0.47J J
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		1.64J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-09GA					
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		2.15 =		2.22 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		463		493.3
Depth to Water	ft		22.87		27.99
Dissolved Oxygen	mg/L		0.97		0.88
pH	Std Unit		5.97		5.94
Temperature	deg C		14.4		14.9
Turbidity	NTU		1.5		1.42
X749-10GA					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U 0.333U U		0.9J J
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
2-Butanone	µg/L		1.67U U 1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		1.67U U
Acetone	µg/L		1.74U U 1.74U U		1.74U U
Benzene	µg/L		0.333U U 0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U 0.333U U		0.333U U
Bromoform	µg/L		0.333U U 0.333U U		0.333U U
Bromomethane	µg/L		0.337U U 0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U 1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U 0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
Chloroethane	µg/L		0.333U U 0.333U U		0.333U U
Chloroform	µg/L		0.333U U 0.333U U		0.333U U
Chloromethane	µg/L		0.333U U 0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.43J J
Dibromochloromethane	µg/L		0.333U U 0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U 0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U 0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U 0.5U U		2.27J UJ
Tetrachloroethene	µg/L		0.333U U 0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-10GA					
Toluene	µg/L		0.333U U 0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U 0.333U U		0.333U U
Radionuclides					
Americium-241	pCi/L		0.0216U U 0.00463U U		
Neptunium-237	pCi/L		0.0636U U -0.0265U U		
Plutonium-238	pCi/L		0.0088U U 0.00637U U		
Plutonium-239/240	pCi/L		0.0088U U 0.0159U U		
Technetium-99	pCi/L		1.55U U -2.27U U		
Uranium	µg/L		0.0928U U 0.325JU UJ		
Uranium-233/234	pCi/L		0.00289U U 0.0705U U		
Uranium-235/236	pCi/L		0.028U U 0.0405U U		
Uranium-238	pCi/L		0.0269U U 0.103JU UJ		
Field Measurements					
Conductivity	µS/cm		470.1		487.9
Depth to Water	ft		22.6		26.98
Dissolved Oxygen	mg/L		1.13		0.99
pH	Std Unit		6.07		6.04
Temperature	deg C		14.2		14.3
Turbidity	NTU		47.8		18.1
X749-13G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		1.28 =		0.84J J
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.35J J		0.333U U
1,1-Dichloroethene	µg/L		1.58 =		1.17J J
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-13G					
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		3.82 =		3J J
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		4.54JU UJ		
Uranium	µg/L		0.931 =		
Uranium-233/234	pCi/L		0.298 =		
Uranium-235/236	pCi/L		0.0172U U		
Uranium-238	pCi/L		0.311 =		
Field Measurements					
Conductivity	µS/cm		453.3		439.9
Depth to Water	ft		10.43		17.15
Dissolved Oxygen	mg/L		3.01		3.29
pH	Std Unit		6.08		6.01
Temperature	deg C		13.7		14.5
Turbidity	NTU		6.06		1.29
X749-14B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-14B					
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		1.76J UJ		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Americium-241	pCi/L		0.0272U U		
Neptunium-237	pCi/L		-0.00281U U		
Plutonium-238	pCi/L		0.00953U U		
Plutonium-239/240	pCi/L		0.0191U U		
Technetium-99	pCi/L		-0.293U U		
Uranium	µg/L		1.05 =		
Uranium-233/234	pCi/L		0.388 =		
Uranium-235/236	pCi/L		0.0338U U		
Uranium-238	pCi/L		0.349 =		
Field Measurements					
Conductivity	µS/cm		332.3		428
Depth to Water	ft		11.28		13.15
Dissolved Oxygen	mg/L		1.14		3.11
pH	Std Unit		6.99		6.62
Temperature	deg C		13.8		15.7
Turbidity	NTU		12.2		4.6

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-20G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.42J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			2.39	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Technetium-99	pCi/L			11.5 =	
Uranium	µg/L			0.953 =	
Uranium-233/234	pCi/L			0.28 =	
Uranium-235/236	pCi/L			0.000711U U	
Uranium-238	pCi/L			0.32 =	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-20G					
Field Measurements					
Conductivity	µS/cm			570	
Depth to Water	ft			19.52	
Dissolved Oxygen	mg/L			1.9	
pH	Std Unit			5.92	
Temperature	deg C			14.6	
Turbidity	NTU			11	
X749-21G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.48J J
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		1.14J UJ		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.81J J		1.23 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-21G					
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		171.7		242.6
Depth to Water	ft		6.4		8.97
Dissolved Oxygen	mg/L		2.13		3.9
pH	Std Unit		5.16		5.95
Temperature	deg C		13.5		17.8
Turbidity	NTU		35.9		61.1
X749-22G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		1.63 =		1.34J J
1,1-Dichloroethene	µg/L		2.49 =		2.21J J
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.75J J		0.82J J
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-22G					
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		472.4		551
Depth to Water	ft		17.8		22.38
Dissolved Oxygen	mg/L		0.99		3.24
pH	Std Unit		5.78		5.67
Temperature	deg C		12.6		13.2
Turbidity	NTU		10.7		94.6
X749-23G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		1.07J UJ		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-23G					
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		411		415.6
Depth to Water	ft		23.09		27.95
Dissolved Oxygen	mg/L		4.56		2.73
pH	Std Unit		6		6.05
Temperature	deg C		15.1		14.6
Turbidity	NTU		11		12.3
X749-24G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		1.29
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		1.25J UJ		0.89J
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.44J

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-24G					
trans-1,2-Dichloroethene	µg/L		0.333U U		0.41J
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Field Measurements					
Conductivity	µS/cm		346.1		342.5
Depth to Water	ft		18.1		21.89
Dissolved Oxygen	mg/L		2.55		1.26
pH	Std Unit		6.21		6.23
Temperature	deg C		14		13.7
Turbidity	NTU		18.2		6.49
X749-26G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.91J J		1.94
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		4.96 =		11.2
1,1-Dichloroethene	µg/L		7.49 =		14.8
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		2.22 =		4.62
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.55J J		2.35
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.74J J		1.57
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.97J UJ		1.09J
Tetrachloroethene	µg/L		0.333U U		0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
X749-26G						
Toluene	µg/L		0.333U U		0.41J	
trans-1,2-Dichloroethene	µg/L		0.333U U		0.45J	
Trichloroethene	µg/L		12.1 =		24.3	
Trichlorofluoromethane	µg/L		0.333U U		0.333U	
Vinyl chloride	µg/L		0.333U U		0.333U	
Radionuclides						
Technetium-99	pCi/L		4.86JU UJ			
Uranium	µg/L		0.214U U			
Uranium-233/234	pCi/L		0.0654U U			
Uranium-235/236	pCi/L		-0.00423U U			
Uranium-238	pCi/L		0.0718U U			
Field Measurements						
Conductivity	µS/cm		775		539	
Depth to Water	ft		9.04		13.25	
Dissolved Oxygen	mg/L		6.61		4.23	
pH	Std Unit		5.98		6.15	
Temperature	deg C		13.3		15.4	
Turbidity	NTU		2.4		2.16	
X749-27G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L		4.24 =		4.95	4.68
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U	0.333U
1,1,2-Trichloroethane	µg/L		0.51J J		0.56J	0.59J
1,1-Dichloroethane	µg/L		55.2 =		26.9	25.6
1,1-Dichloroethene	µg/L		67.6 =		49.6	46.5
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U	0.333U
1,2-Dichloroethane	µg/L		31.9 =		9.45	9.27
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U	0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U	0.333U
2-Butanone	µg/L		1.67U U		1.67U	1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U	1.67U
Acetone	µg/L		1.74U U		1.74U	1.74U
Benzene	µg/L		0.333U U		0.333U	0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U	0.333U
Bromoform	µg/L		0.333U U		0.333U	0.333U
Bromomethane	µg/L		0.337U U		0.337U	0.337U
Carbon disulfide	µg/L		1.67U U		1.67U	1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U	0.333U
Chlorobenzene	µg/L		0.333U U		0.333U	0.333U
Chloroethane	µg/L		0.333U U		0.333U	0.333U
Chloroform	µg/L		7.15 =		4.84	4.5

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
X749-27G						
Chloromethane	µg/L		0.333U U		0.333U	0.333U
cis-1,2-Dichloroethene	µg/L		8.4 =		3.82	3.65
Dibromochloromethane	µg/L		0.333U U		0.333U	0.333U
Ethylbenzene	µg/L		0.333U U		0.333U	0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U	0.5U
Methylene chloride	µg/L		1.21J UJ		0.93J	0.85J
Tetrachloroethene	µg/L		0.69J J		0.96J	0.91J
Toluene	µg/L		0.333U U		0.41J	0.34J
trans-1,2-Dichloroethene	µg/L		0.333U U		0.47J	0.42J
Trichloroethene	µg/L		85.8 =		77.5	75.3
Trichlorofluoromethane	µg/L		0.333U U		0.333U	0.333U
Vinyl chloride	µg/L		0.333U U		0.333U	0.333U
Radionuclides						
Technetium-99	pCi/L		47.6 =			
Uranium	µg/L		0.584JU UJ			
Uranium-233/234	pCi/L		0.103U U			
Uranium-235/236	pCi/L		-0.00612U U			
Uranium-238	pCi/L		0.196JU UJ			
Field Measurements						
Conductivity	µS/cm		638		569	
Depth to Water	ft		8.01		12.7	
Dissolved Oxygen	mg/L		2.41		0.75	
pH	Std Unit		6.1		6.07	
Temperature	deg C		12.6		15	
Turbidity	NTU		3.56		1.27	
X749-28G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L			3.9		
1,1,2,2-Tetrachloroethane	µg/L			0.333U		
1,1,2-Trichloroethane	µg/L			0.61J		
1,1-Dichloroethane	µg/L			13		
1,1-Dichloroethene	µg/L			46.5		
1,2-Dichlorobenzene	µg/L			0.333U		
1,2-Dichloroethane	µg/L			1.28		
1,2-Dimethylbenzene	µg/L			0.333U		
1,4-Dichlorobenzene	µg/L			0.333U		
2-Butanone	µg/L			1.67U		
4-Methyl-2-pentanone	µg/L			1.67U		
Acetone	µg/L			1.74U		
Benzene	µg/L			0.333U		
Bromodichloromethane	µg/L			0.333U		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-28G					
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			1.01	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			1.32	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.62J	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			56.2	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Technetium-99	pCi/L			2.45U *U*	
Uranium	µg/L			0.123U *UJ*	
Uranium-233/234	pCi/L			0.167JU *UJ*	
Uranium-235/236	pCi/L			0.000621U *UJ*	
Uranium-238	pCi/L			0.0412U *UJ*	
Field Measurements					
Conductivity	µS/cm			430.9	
Depth to Water	ft			12.51	
Dissolved Oxygen	mg/L			1.48	
pH	Std Unit			6.18	
Temperature	deg C			15.4	
Turbidity	NTU			18.6	
X749-29G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-29G					
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.45J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			20.3	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			615	
Depth to Water	ft			9.28	
Dissolved Oxygen	mg/L			0.15	
pH	Std Unit			6.49	
Temperature	deg C			17	
Turbidity	NTU			5.53	
X749-30G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.8J	
1,2-Dichlorobenzene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-30G					
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			2.44	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			83.9	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1117	
Depth to Water	ft			13.41	
Dissolved Oxygen	mg/L			1.15	
pH	Std Unit			5.83	
Temperature	deg C			16.5	
Turbidity	NTU			4.05	
X749-33G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		1.61 =		2.04
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		4.9 =		7.79
1,1-Dichloroethene	µg/L		7.78 =		16.3

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-33G					
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		1.41 =		1.94
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.34J J		1.98
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.68J J		1.2
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.73J
Tetrachloroethene	µg/L		0.42J J		0.47J
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.35J
Trichloroethene	µg/L		17.3 =		29.4
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U UJ		0.333U
Radionuclides					
Technetium-99	pCi/L		1.6U U		
Uranium	µg/L		0U U		
Uranium-233/234	pCi/L		-0.0207U U		
Uranium-235/236	pCi/L		-0.0202U U		
Uranium-238	pCi/L		-0.0317U U		
Field Measurements					
Conductivity	µS/cm		349.2		437.5
Depth to Water	ft		6.54		12.65
Dissolved Oxygen	mg/L		4.08		1.09
pH	Std Unit		6.15		6.12
Temperature	deg C		14.1		15.3
Turbidity	NTU		3.82		2.25

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-35G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			12.1	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			4.3	
1,1-Dichloroethene	µg/L			9.01	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			2.4	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			28.3	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			535	
Depth to Water	ft			18.01	
Dissolved Oxygen	mg/L			0.42	
pH	Std Unit			6.3	
Temperature	deg C			13.5	
Turbidity	NTU			1.07	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-36G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			1.03	
1,1-Dichloroethene	µg/L			2.56	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			3.74	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			495	
Depth to Water	ft			11.05	
Dissolved Oxygen	mg/L			1.12	
pH	Std Unit			6.49	
Temperature	deg C			16.8	
Turbidity	NTU			6.27	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-37G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		2.29 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		2.13 =		8.49 =
1,1-Dichloroethene	µg/L		4.32 =		18.4 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.9J J
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.65J J
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.75J J		1.84 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.39J J
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		6.98 =		24.5 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		0.411U U		
Uranium	µg/L		4.14 J		
Uranium-233/234	pCi/L		1.72 =		
Uranium-235/236	pCi/L		0.106JU UJ		
Uranium-238	pCi/L		1.38 =		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-37G					
Field Measurements					
Conductivity	µS/cm		732		701
Depth to Water	ft		6		14.42
Dissolved Oxygen	mg/L		0.86		2.55
pH	Std Unit		6.52		6.41
Temperature	deg C		12.9		17.2
Turbidity	NTU		0.65		4.67
X749-38G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		1.06 =		2.31
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.34J
1,1-Dichloroethane	µg/L		4.87 =		8.29
1,1-Dichloroethene	µg/L		10.3 =		18
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.54J J		0.86J
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.34J J		1.59
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		1.56 =		2.55
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.74J
Tetrachloroethene	µg/L		0.36J J		0.66J
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.37J
Trichloroethene	µg/L		16.4 =		28.4
Trichlorofluoromethane	µg/L		0.333U U		0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-38G					
Vinyl chloride	µg/L		0.333U U		0.333U
Field Measurements					
Conductivity	µS/cm		630		581
Depth to Water	ft		5.78		11.8
Dissolved Oxygen	mg/L		1.15		1.23
pH	Std Unit		6.4		6.24
Temperature	deg C		12.7		15.2
Turbidity	NTU		0.52		1.25
X749-40G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.88J	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-40G					
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			878	
Depth to Water	ft			12.36	
Dissolved Oxygen	mg/L			2.38	
pH	Std Unit			5.99	
Temperature	deg C			16.4	
Turbidity	NTU			0.72	
X749-41G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		2.53J UJ		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		1 =		1.53 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.35J J		0.44J J

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-41G					
Trichloroethene	µg/L		299 =		315 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		675		699
Depth to Water	ft		10.58		15.47
Dissolved Oxygen	mg/L		0.64		0.6
pH	Std Unit		5.53		5.3
Temperature	deg C		13.7		14.8
Turbidity	NTU		17.5		9.39
X749-42G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.45J J		0.53J
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		1.07
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.77J
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-42G					
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		1.72 =		1.93
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Field Measurements					
Conductivity	µS/cm		279.5		279.8
Depth to Water	ft		10.55		14.2
Dissolved Oxygen	mg/L		2.02		0.9
pH	Std Unit		5.89		5.83
Temperature	deg C		13.7		16
Turbidity	NTU		3.15		9.38
X749-43G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.54J	
1,1-Dichloroethene	µg/L			1.2	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			3.31J	
Tetrachloroethene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-43G					
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.93J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			355.4	
Depth to Water	ft			17.35	
Dissolved Oxygen	mg/L			5.28	
pH	Std Unit			5.66	
Temperature	deg C			18.4	
Turbidity	NTU			69.3	
X749-44G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U	0.5U U
Methylene chloride	µg/L	1.16J	0.5U U	0.5U	0.5U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-44G					
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Radionuclides					
Americium-241	pCi/L		0.00304U UJ		
Neptunium-237	pCi/L		0.0131U U		
Plutonium-238	pCi/L		0.0266U U		
Plutonium-239/240	pCi/L		-0.00418U U		
Technetium-99	pCi/L		1.1U U		
Uranium	µg/L		0.122U U		
Uranium-233/234	pCi/L		0.063U U		
Uranium-235/236	pCi/L		0U U		
Uranium-238	pCi/L		0.0409JU U		
Field Measurements					
Conductivity	µS/cm	412.7	373.7	395.3	397.4
Depth to Water	ft	26.09	23.58	27.76	28.62
Dissolved Oxygen	mg/L	0.75	0.45	0.51	0.81
pH	Std Unit	6.26	6.36	6.36	6.24
Temperature	deg C	12.7	14.3	14	14.2
Turbidity	NTU	2.43	4.98	0.68	1.03
X749-45G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U	0.337U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-45G					
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U	0.5U U
Methylene chloride	µg/L	1.22J	1.7J UJ	0.96J	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Trichloroethene	µg/L	0.333U	0.9J J	0.43J	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Radionuclides					
Americium-241	pCi/L		0.0449U U		
Neptunium-237	pCi/L		-0.0594U U		
Plutonium-238	pCi/L		0.0177U U		
Plutonium-239/240	pCi/L		0.00442U U		
Technetium-99	pCi/L		-0.0865U U		
Uranium	µg/L		0.199U U		
Uranium-233/234	pCi/L		-0.0495U U		
Uranium-235/236	pCi/L		-0.0187U U		
Uranium-238	pCi/L		0.0669U U		
Field Measurements					
Conductivity	µS/cm	425.5	430.4	434.9	410.9
Depth to Water	ft	14.68	14.77	15.7	17.65
Dissolved Oxygen	mg/L	1.46	2.22	1.4	3.76
pH	Std Unit	6.25	6.37	6.38	6.31
Temperature	deg C	13.3	14.2	14.9	14.4
Turbidity	NTU	8.95	14.9	26.2	1.64
X749-50B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.46J J	
1,1-Dichloroethene	µg/L			0.333U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-50B					
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U U	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			6.96J UJ	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			0.333U U	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			946	
Depth to Water	ft			28.58	
Dissolved Oxygen	mg/L			4.01	
pH	Std Unit			7.23	
Temperature	deg C			15.9	
Turbidity	NTU			4.07	
X749-51B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-51B					
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			2.2J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			588	
Depth to Water	ft			39	
Dissolved Oxygen	mg/L			2.5	
pH	Std Unit			7	
Temperature	deg C			16.7	
Turbidity	NTU			11.6	
X749-54B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-54B					
1,1-Dichloroethane	µg/L		6.93 =		3.65
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		1
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		1.05J UJ		0.81J
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		2.16 =		2.87
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		2.17 =		0.333U
Radionuclides					
Technetium-99	pCi/L		-0.874U U		
Uranium	µg/L		0.0177U U		
Uranium-233/234	pCi/L		-0.0137U U		
Uranium-235/236	pCi/L		0.0384U U		
Uranium-238	pCi/L		-0.00243U U		
Field Measurements					
Conductivity	µS/cm		495		492.9
Depth to Water	ft		11.66		11.22
Dissolved Oxygen	mg/L		5.37		3.95
pH	Std Unit		6.41		6.78

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-54B					
Temperature	deg C		13.6		13
Turbidity	NTU		24.3		8.23
X749-60B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			2.12J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			876	
Depth to Water	ft			31.96	
Dissolved Oxygen	mg/L			3.7	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-60B					
pH	Std Unit			9.25	
Temperature	deg C			19.7	
Turbidity	NTU			8.81	
X749-64B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.88J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Americium-241	pCi/L			0.0281U U	
Neptunium-237	pCi/L			0.00687U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-64B					
Plutonium-238	pCi/L			0U U	
Plutonium-239/240	pCi/L			-0.00977U U	
Technetium-99	pCi/L			-0.614U U	
Uranium	µg/L			0.979 =	
Uranium-233/234	pCi/L			1.44 =	
Uranium-235/236	pCi/L			0.00541U U	
Uranium-238	pCi/L			0.328 =	
Field Measurements					
Conductivity	µS/cm			2710	
Depth to Water	ft			31.55	
Dissolved Oxygen	mg/L			2.2	
pH	Std Unit			7.22	
Temperature	deg C			17.5	
Turbidity	NTU			22.9	
X749-66G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-66G					
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			3.13J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			912	
Depth to Water	ft			16.33	
Dissolved Oxygen	mg/L			4.82	
pH	Std Unit			5.97	
Temperature	deg C			17.9	
Turbidity	NTU			2.43	
X749-67G					
Metals					
Beryllium	µg/L		0.2U U 0.2U U		
Cadmium	µg/L		0.3U U 0.3U U		
Chromium	µg/L		3.01J J 3U U		
Manganese	µg/L		1U U 1U U		
Nickel	µg/L		4.95 = 5.28 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.62	0.85J J 0.92J J	1.37	1.79 =
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
1,1-Dichloroethane	µg/L	30.9	13.8 = 14.3 =	27.9	31.2 =
1,1-Dichloroethene	µg/L	19.5	8.45 = 8.91 =	17.1	18.5 =
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
1,2-Dichloroethane	µg/L	8.92	4.11 = 4.26 =	8.43	10.7 =
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U 1.67U U	1.67U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U 1.67U U	1.67U	1.67U U
Acetone	µg/L	1.74U	1.74U U 1.74U U	1.74U	1.74U U
Benzene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Bromoform	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U 0.337U U	0.337U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U 1.67U U	1.67U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-67G					
Chlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Chloroform	µg/L	1.34	0.67J J 0.72J J	0.68J	1.53 =
Chloromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
cis-1,2-Dichloroethene	µg/L	9.03	4.45 = 4.68 =	9.03	9.78 =
Dibromochloromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U 0.5U U	0.5U	0.5U U
Methylene chloride	µg/L	1.37J	0.5U U 0.5U U	0.59J	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Toluene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Trichloroethene	µg/L	75.1	34.8 = 36.6 =	65	76.8 =
Trichlorofluoromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U 0.333U U	0.333U	0.333U U
Radionuclides					
Technetium-99	pCi/L		9.85 = 12 =		
Uranium	µg/L		0.847JU UJ 0.555JU UJ		
Uranium-233/234	pCi/L		0.191JU UJ 0.224JU UJ		
Uranium-235/236	pCi/L		-0.0199U U 0.0322U U		
Uranium-238	pCi/L		0.285JU UJ 0.181JU UJ		
Field Measurements					
Conductivity	µS/cm	879	916	942	924
Depth to Water	ft	21.22	19.5	21.4	24.99
Dissolved Oxygen	mg/L	0.52	1.79	0.82	0.42
pH	Std Unit	6.08	6.29	6.33	6.02
Temperature	deg C	13.5	14.2	15.6	14.6
Turbidity	NTU	3.13	2.8	27.7	1.6
X749-68G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-68G					
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Americium-241	pCi/L			0.0181U U	
Neptunium-237	pCi/L			0.0704U U	
Plutonium-238	pCi/L			0.0194U U	
Plutonium-239/240	pCi/L			0.00323U U	
Technetium-99	pCi/L			-0.369U U	
Uranium	µg/L			0.2U U	
Uranium-233/234	pCi/L			0.0384U U	
Uranium-235/236	pCi/L			-0.0114U U	
Uranium-238	pCi/L			0.0674U U	
Field Measurements					
Conductivity	µS/cm			535	
Depth to Water	ft			4.59	
Dissolved Oxygen	mg/L			0.7	
pH	Std Unit			5.96	
Temperature	deg C			17.9	
Turbidity	NTU			189	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-96G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Americium-241	pCi/L		0.0175U U		
Neptunium-237	pCi/L		-0.00324U U		
Plutonium-238	pCi/L		0.00888U U		
Plutonium-239/240	pCi/L		-0.00444U U		
Technetium-99	pCi/L		0.931U U		
Uranium	µg/L		2.01 =		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-96G					
Uranium-233/234	pCi/L		0.704 =		
Uranium-235/236	pCi/L		0.0213U U		
Uranium-238	pCi/L		0.672 =		
Field Measurements					
Conductivity	µS/cm		261.8		253.4
Depth to Water	ft		14.19		17.36
Dissolved Oxygen	mg/L		1.78		1.82
pH	Std Unit		6.15		6.12
Temperature	deg C		14		15.5
Turbidity	NTU		370		33.5
X749-97G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	1.17J	1.7J UJ	6.93J UJ	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-97G					
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Radionuclides					
Americium-241	pCi/L		0.00371U U		
Neptunium-237	pCi/L		0.0287U U		
Plutonium-238	pCi/L		0.0192U U		
Plutonium-239/240	pCi/L		0.0192U U		
Technetium-99	pCi/L		-1.28U U		
Uranium	µg/L		0.134U U		
Uranium-233/234	pCi/L		0.0094U U		
Uranium-235/236	pCi/L		0.0254U U		
Uranium-238	pCi/L		0.041U U		
Field Measurements					
Conductivity	µS/cm	457.2	433.9	457.2	425.3
Depth to Water	ft	18.34	18.28	20.12	21.32
Dissolved Oxygen	mg/L	0.35	1.06	0.27	0.41
pH	Std Unit	6.43	6.61	6.53	6.38
Temperature	deg C	11.4	13.6	13.9	12.9
Turbidity	NTU	32.4	22	15.3	5.38
X749-98G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-98G					
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		1.94J UJ		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Americium-241	pCi/L		0.00359U U		
Neptunium-237	pCi/L		-0.0618U U		
Plutonium-238	pCi/L		-0.0228U U		
Plutonium-239/240	pCi/L		0.00456U U		
Technetium-99	pCi/L		-0.214U U		
Uranium	µg/L		0.0429U U		
Uranium-233/234	pCi/L		-0.0129U U		
Uranium-235/236	pCi/L		0.0196U U		
Uranium-238	pCi/L		0.0114U U		
Field Measurements					
Conductivity	µS/cm		312.8		363.2
Depth to Water	ft		19.63		23.06
Dissolved Oxygen	mg/L		1.38		1.28
pH	Std Unit		6.67		6.38
Temperature	deg C		14.3		12.9
Turbidity	NTU		6.64		1.99
X749-99M					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-99M					
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U U	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			7.13J UJ	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			0.333U U	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			156.8	
Depth to Water	ft			12.24	
Dissolved Oxygen	mg/L			3.53	
pH	Std Unit			6.28	
Temperature	deg C			13.5	
Turbidity	NTU			37.1	
X749-100M					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-100M					
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			1.41J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			294.3	
Depth to Water	ft			15.8	
Dissolved Oxygen	mg/L			3.38	
pH	Std Unit			6.86	
Temperature	deg C			14.5	
Turbidity	NTU			17.4	
X749-101M					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter		Second Quarter	Third Quarter	Fourth Quarter
X749-101M						
1,2-Dichlorobenzene	µg/L				0.333U	
1,2-Dichloroethane	µg/L				0.333U	
1,2-Dimethylbenzene	µg/L				0.333U	
1,4-Dichlorobenzene	µg/L				0.333U	
2-Butanone	µg/L				1.67U	
4-Methyl-2-pentanone	µg/L				1.67U	
Acetone	µg/L				1.74U	
Benzene	µg/L				0.333U	
Bromodichloromethane	µg/L				0.333U	
Bromoform	µg/L				0.333U	
Bromomethane	µg/L				0.337U	
Carbon disulfide	µg/L				1.67U	
Carbon tetrachloride	µg/L				0.333U	
Chlorobenzene	µg/L				0.333U	
Chloroethane	µg/L				0.333U	
Chloroform	µg/L				0.333U	
Chloromethane	µg/L				0.333U	
cis-1,2-Dichloroethene	µg/L				0.333U	
Dibromochloromethane	µg/L				0.333U	
Ethylbenzene	µg/L				0.333U	
m,p-Xylenes	µg/L				0.5U	
Methylene chloride	µg/L				0.5U	
Tetrachloroethene	µg/L				0.333U	
Toluene	µg/L				0.333U	
trans-1,2-Dichloroethene	µg/L				0.333U	
Trichloroethene	µg/L				0.333U	
Trichlorofluoromethane	µg/L				0.333U	
Vinyl chloride	µg/L				0.333U	
Field Measurements						
Conductivity	µS/cm				354.4	
Depth to Water	ft				21.69	
Dissolved Oxygen	mg/L				1.27	
pH	Std Unit				6.67	
Temperature	deg C				12.9	
Turbidity	NTU				19.1	
X749-102G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.333U	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U	0.333U U	0.333U U	0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
X749-102G									
1,1-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,2-Dichloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
2-Butanone	µg/L	1.67U	1.67U	1.67U	U	1.67U	U	1.67U	U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U	1.67U	U	1.67U	U	1.67U	U
Acetone	µg/L	1.74U	1.74U	1.74U	U	1.74U	U	1.74U	U
Benzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Bromodichloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Bromoform	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Bromomethane	µg/L	0.337U	0.337U	0.337U	U	0.337U	U	0.337U	U
Carbon disulfide	µg/L	1.67U	1.67U	1.67U	U	1.67U	U	1.67U	U
Carbon tetrachloride	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloroform	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Dibromochloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Ethylbenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
m,p-Xylenes	µg/L	0.5U	0.5U	0.5U	U	0.5U	U	0.5U	U
Methylene chloride	µg/L	1.33J	1.27J	0.5U	U	6.71J	UJ	0.5U	U
Tetrachloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Toluene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Trichloroethene	µg/L	0.35J	0.333U	0.333U	U	0.333U	U	0.333U	U
Trichlorofluoromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Vinyl chloride	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Field Measurements									
Conductivity	µS/cm	446.8		421.5		436.8		458.5	
Depth to Water	ft	23.41		23.07		24.99		25.8	
Dissolved Oxygen	mg/L	0.66		1.34		0.47		1.14	
pH	Std Unit	6.07		6.28		6.18		6.04	
Temperature	deg C	12.4		13.9		13.7		13.8	
Turbidity	NTU	3.96		1.19		0.6		6.51	
X749-103G									
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	0.333U		0.333U	U	0.333U		0.333U	U
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U	U	0.333U		0.333U	U
1,1,2-Trichloroethane	µg/L	0.333U		0.333U	U	0.333U		0.333U	U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-103G					
1,1-Dichloroethane	µg/L	0.52J	0.49J J	0.333U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.58J J	0.333U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U	0.5U U
Methylene chloride	µg/L	0.5U	0.5U U	2.03J	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Trichloroethene	µg/L	0.97J	0.87J J	0.66J	0.79J J
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Field Measurements					
Conductivity	µS/cm	1208	1206	1200	1156
Depth to Water	ft	16.08	14.79	16.76	17.94
Dissolved Oxygen	mg/L	2.65	3.64	2.96	2.8
pH	Std Unit	5.7	5.86	5.76	5.68
Temperature	deg C	13.2	14.2	16.1	16.7
Turbidity	NTU	8.09	8.02	4.85	4.58
X749-104G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-104G					
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		241.3		248.2
Depth to Water	ft		9.69		11.97
Dissolved Oxygen	mg/L		1.76		0.32
pH	Std Unit		6.13		6.05
Temperature	deg C		14.4		17.3
Turbidity	NTU		51.7		82
X749-105G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-105G					
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		366.1		362
Depth to Water	ft		22.45		25.84
Dissolved Oxygen	mg/L		1.17		0.98
pH	Std Unit		6.61		6.46
Temperature	deg C		13.8		14.3
Turbidity	NTU		0.63		1.56

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-106G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		2.21		1.94
1,1,2,2-Tetrachloroethane	µg/L		0.333U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U		0.333U
1,1-Dichloroethane	µg/L		5.11		3.92
1,1-Dichloroethene	µg/L		16.9		10.3
1,2-Dichlorobenzene	µg/L		0.333U		0.333U
1,2-Dichloroethane	µg/L		0.53J		0.333U
1,2-Dimethylbenzene	µg/L		0.333U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U		0.333U
2-Butanone	µg/L		1.67U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U		1.67U
Acetone	µg/L		1.74U		1.74U
Benzene	µg/L		0.333U		0.333U
Bromodichloromethane	µg/L		0.333U		0.333U
Bromoform	µg/L		0.333U		0.333U
Bromomethane	µg/L		0.337U		0.337U
Carbon disulfide	µg/L		1.67U		1.67U
Carbon tetrachloride	µg/L		0.333U		0.333U
Chlorobenzene	µg/L		0.333U		0.333U
Chloroethane	µg/L		0.333U		0.333U
Chloroform	µg/L		0.47J		2.1
Chloromethane	µg/L		0.333U		0.333U
cis-1,2-Dichloroethene	µg/L		0.68J		0.52J
Dibromochloromethane	µg/L		0.333U		0.333U
Ethylbenzene	µg/L		0.333U		0.333U
m,p-Xylenes	µg/L		0.5U		0.5U
Methylene chloride	µg/L		0.5U		0.98J
Tetrachloroethene	µg/L		0.333U		0.333U
Toluene	µg/L		0.333U		0.72J
trans-1,2-Dichloroethene	µg/L		0.333U		0.56J
Trichloroethene	µg/L		9.93		8.85
Trichlorofluoromethane	µg/L		0.333U		0.333U
Vinyl chloride	µg/L		0.333U		0.333U
Radionuclides					
Technetium-99	pCi/L		3.44JU UJ		
Uranium	µg/L		0.149U U		
Uranium-233/234	pCi/L		0.0271U U		
Uranium-235/236	pCi/L		-0.0116U U		
Uranium-238	pCi/L		0.0501U U		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-106G					
Field Measurements					
Conductivity	µS/cm		402		398.4
Depth to Water	ft		8.15		12.8
Dissolved Oxygen	mg/L		0.77		1.24
pH	Std Unit		6.26		5.93
Temperature	deg C		12.5		15.2
Turbidity	NTU		0.85		0.26
X749-107G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		1.99 =		1.94 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		5.58 =		4.75 =
1,1-Dichloroethene	µg/L		12.7 =		13.3 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.44J J
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.49J J		0.47J J
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.96J J		0.82J J
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		10.4 =		10 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-107G					
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		516		494.6
Depth to Water	ft		9.66		13.93
Dissolved Oxygen	mg/L		0.73		0.22
pH	Std Unit		6.1		5.96
Temperature	deg C		12.3		16
Turbidity	NTU		1.76		1.8
X749-108G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		9.79		10.2 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U		0.333U U
1,1,2-Trichloroethane	µg/L		0.73J		0.66J J
1,1-Dichloroethane	µg/L		13.9		12.7 =
1,1-Dichloroethene	µg/L		41.4		34.8 =
1,2-Dichlorobenzene	µg/L		0.333U		0.333U U
1,2-Dichloroethane	µg/L		1.11		1.1 =
1,2-Dimethylbenzene	µg/L		0.333U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U		0.333U U
2-Butanone	µg/L		1.67U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U		1.67U U
Acetone	µg/L		1.74U		1.74U U
Benzene	µg/L		0.333U		0.333U U
Bromodichloromethane	µg/L		0.333U		0.333U U
Bromoform	µg/L		0.333U		0.333U U
Bromomethane	µg/L		0.337U		0.337U U
Carbon disulfide	µg/L		1.67U		1.67U U
Carbon tetrachloride	µg/L		0.333U		0.333U U
Chlorobenzene	µg/L		0.333U		0.333U U
Chloroethane	µg/L		0.333U		0.333U U
Chloroform	µg/L		1.33		1.31 =
Chloromethane	µg/L		0.333U		0.333U U
cis-1,2-Dichloroethene	µg/L		2.21		1.94 =
Dibromochloromethane	µg/L		0.333U		0.333U U
Ethylbenzene	µg/L		0.333U		0.333U U
m,p-Xylenes	µg/L		0.5U		0.5U U
Methylene chloride	µg/L		1.2J		0.5U U
Tetrachloroethene	µg/L		0.66J		0.61J J
Toluene	µg/L		0.333U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U		0.333U U
Trichloroethene	µg/L		37.4		33.8 =

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-108G					
Trichlorofluoromethane	µg/L		0.333U		0.333U U
Vinyl chloride	µg/L		0.333U		0.333U U
Radionuclides					
Technetium-99	pCi/L		4.65JU UJ		
Uranium	µg/L		0.0618U U		
Uranium-233/234	pCi/L		0.0109U U		
Uranium-235/236	pCi/L		-0.0042U U		
Uranium-238	pCi/L		0.0208U U		
Field Measurements					
Conductivity	µS/cm		323		326.8
Depth to Water	ft		8.41		14
Dissolved Oxygen	mg/L		0.59		1.72
pH	Std Unit		5.74		5.83
Temperature	deg C		14.2		19.1
Turbidity	NTU		6.48		2.37
X749-109G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.48J J		0.333U
1,1-Dichloroethene	µg/L		0.45J J		0.63J
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		1.31
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-109G					
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.91J
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.5J
trans-1,2-Dichloroethene	µg/L		0.333U U		0.42J
Trichloroethene	µg/L		1.33 =		1.31
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Technetium-99	pCi/L		0.409U U		
Uranium	µg/L		0.734 J		
Uranium-233/234	pCi/L		0.186JU UJ		
Uranium-235/236	pCi/L		-0.00678U U		
Uranium-238	pCi/L		0.247 =		
Field Measurements					
Conductivity	µS/cm		490.9		512
Depth to Water	ft		10.4		14.9
Dissolved Oxygen	mg/L		1.07		1.51
pH	Std Unit		6.22		6.19
Temperature	deg C		14.1		15.2
Turbidity	NTU		18.6		0.27
X749-110G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.35J J
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.56J J		0.75J J
1,1-Dichloroethene	µg/L		0.71J J		1.54 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-110G					
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.57J J		0.88J J
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5*U UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		4.25 =		5.11 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Radionuclides					
Technetium-99	pCi/L		5.57JU UJ		
Uranium	µg/L		2.4 J		
Uranium-233/234	pCi/L		0.955 =		
Uranium-235/236	pCi/L		0.0066U U		
Uranium-238	pCi/L		0.806 J		
Field Measurements					
Conductivity	µS/cm		495.6		597
Depth to Water	ft		12.49		18.54
Dissolved Oxygen	mg/L		2.55		0.81
pH	Std Unit		6.25		6.27
Temperature	deg C		14.9		14.9
Turbidity	NTU		7.72		0.27
X749-111G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-111G					
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			2.19J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			50	
Depth to Water	ft			7.9	
Dissolved Oxygen	mg/L			3.14	
pH	Std Unit			5	
Temperature	deg C			18.5	
Turbidity	NTU			21.1	
X749-112G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-112G					
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		1.2J UJ		0.5*U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		47.3		45.9
Depth to Water	ft		4.1		6.5
Dissolved Oxygen	mg/L		7.29		8.77
pH	Std Unit		5.73		6.44
Temperature	deg C		16.2		16.1
Turbidity	NTU		60.5		26.7
X749-113G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		6.06		5.88
1,1,2,2-Tetrachloroethane	µg/L		0.333U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U		0.333U
1,1-Dichloroethane	µg/L		17.8		15.2
1,1-Dichloroethene	µg/L		29		21.6
1,2-Dichlorobenzene	µg/L		0.333U		0.333U
1,2-Dichloroethane	µg/L		9.7		8.01
1,2-Dimethylbenzene	µg/L		0.333U		0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-113G					
1,4-Dichlorobenzene	µg/L		0.333U		0.333U
2-Butanone	µg/L		1.67U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U		1.67U
Acetone	µg/L		1.74U		1.74U
Benzene	µg/L		0.333U		0.333U
Bromodichloromethane	µg/L		0.333U		0.333U
Bromoform	µg/L		0.333U		0.333U
Bromomethane	µg/L		0.337U		0.337U
Carbon disulfide	µg/L		1.67U		1.67U
Carbon tetrachloride	µg/L		0.333U		0.333U
Chlorobenzene	µg/L		0.333U		0.333U
Chloroethane	µg/L		0.333U		0.333U
Chloroform	µg/L		1.71		2.97
Chloromethane	µg/L		0.333U		0.333U
cis-1,2-Dichloroethene	µg/L		2.44		1.76
Dibromochloromethane	µg/L		0.333U		0.333U
Ethylbenzene	µg/L		0.333U		0.333U
m,p-Xylenes	µg/L		0.5U		0.5U
Methylene chloride	µg/L		1.15J		0.92J
Tetrachloroethene	µg/L		0.333U		0.333U
Toluene	µg/L		0.333U		0.49J
trans-1,2-Dichloroethene	µg/L		0.333U		0.53J
Trichloroethene	µg/L		32.2		28.9
Trichlorofluoromethane	µg/L		0.333U		0.333U
Vinyl chloride	µg/L		0.333U		0.333U
Radionuclides					
Technetium-99	pCi/L		7.95JU UJ		
Uranium	µg/L		0.188U U		
Uranium-233/234	pCi/L		0.079U U		
Uranium-235/236	pCi/L		-0.00482U U		
Uranium-238	pCi/L		0.0632U U		
Field Measurements					
Conductivity	µS/cm		515		505
Depth to Water	ft		31.26		35.09
Dissolved Oxygen	mg/L		3		3.05
pH	Std Unit		6.18		6.06
Temperature	deg C		17.2		13.2
Turbidity	NTU		1.82		0.37
X749-114G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-114G					
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.74J J	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			0.5U U	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			0.333U U	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			1463	
Depth to Water	ft			22.49	
Dissolved Oxygen	mg/L			3.95	
pH	Std Unit			6.42	
Temperature	deg C			18.1	
Turbidity	NTU			7.66	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-115G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			4.13	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			2.23J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			175	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1646	
Depth to Water	ft			14.78	
Dissolved Oxygen	mg/L			1.25	
pH	Std Unit			5.9	
Temperature	deg C			15.7	
Turbidity	NTU			16.1	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-117G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.38J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.64J	
Tetrachloroethene	µg/L			1.16	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			145	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1013	
Depth to Water	ft			31.85	
Dissolved Oxygen	mg/L			0.52	
pH	Std Unit			5.9	
Temperature	deg C			14.7	
Turbidity	NTU			3.64	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-119G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.39J	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			15.4	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			876	
Depth to Water	ft			31.91	
Dissolved Oxygen	mg/L			1.34	
pH	Std Unit			5.81	
Temperature	deg C			16.2	
Turbidity	NTU			2.91	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-120G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			235	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			55.7	
1,1-Dichloroethane	µg/L			3140	
1,1-Dichloroethene	µg/L			2540	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			61.5	
1,2-Dimethylbenzene	µg/L			1.24	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			4.31	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			168	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			594	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.85J	
Methylene chloride	µg/L			48.9	
Tetrachloroethene	µg/L			104	
Toluene	µg/L			0.74J	
trans-1,2-Dichloroethene	µg/L			1.75	
Trichloroethene	µg/L			2650	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			14.3	
Radionuclides					
Technetium-99	pCi/L			114 =	
Uranium	µg/L			0.828 UJ	
Uranium-233/234	pCi/L			0.557 =	
Uranium-235/236	pCi/L			0.023U U	
Uranium-238	pCi/L			0.275 UJ	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-120G					
Field Measurements					
Conductivity	µS/cm			1293	
Depth to Water	ft			36.03	
Dissolved Oxygen	mg/L			3.12	
pH	Std Unit			6.02	
Temperature	deg C			15.6	
Turbidity	NTU			15.7	
X749-121G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			15.6	12.9
1,1,2,2-Tetrachloroethane	µg/L			0.333U	0.333U
1,1,2-Trichloroethane	µg/L			0.96J	0.78J
1,1-Dichloroethane	µg/L			9.56	9.2
1,1-Dichloroethene	µg/L			213	161
1,2-Dichlorobenzene	µg/L			0.333U	0.333U
1,2-Dichloroethane	µg/L			1.27	1.07
1,2-Dimethylbenzene	µg/L			0.333U	0.333U
1,4-Dichlorobenzene	µg/L			0.333U	0.333U
2-Butanone	µg/L			1.67U	1.67U
4-Methyl-2-pentanone	µg/L			1.67U	1.67U
Acetone	µg/L			1.74U	1.74U
Benzene	µg/L			0.333U	0.333U
Bromodichloromethane	µg/L			0.333U	0.333U
Bromoform	µg/L			0.333U	0.333U
Bromomethane	µg/L			0.337U	0.337U
Carbon disulfide	µg/L			1.67U	1.67U
Carbon tetrachloride	µg/L			0.333U	0.333U
Chlorobenzene	µg/L			0.333U	0.333U
Chloroethane	µg/L			0.333U	0.333U
Chloroform	µg/L			0.93J	0.82J
Chloromethane	µg/L			0.333QU	0.333QU
cis-1,2-Dichloroethene	µg/L			6.08	6.02
Dibromochloromethane	µg/L			0.333U	0.333U
Ethylbenzene	µg/L			0.333U	0.333U
m,p-Xylenes	µg/L			0.5U	0.5U
Methylene chloride	µg/L			0.65J	0.58J
Tetrachloroethene	µg/L			0.333U	0.333U
Toluene	µg/L			0.333U	0.333U
trans-1,2-Dichloroethene	µg/L			0.333U	0.333U
Trichloroethene	µg/L			46.6	43.7
Trichlorofluoromethane	µg/L			0.333U	0.333U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-121G					
Vinyl chloride	µg/L			0.333U 0.333U	
Radionuclides					
Technetium-99	pCi/L			349 = 341 =	
Uranium	µg/L			1.24 = 1.28 =	
Uranium-233/234	pCi/L			0.499 = 0.656 =	
Uranium-235/236	pCi/L			0.0483JU U 0.044U U	
Uranium-238	pCi/L			0.408 = 0.425 =	
Field Measurements					
Conductivity	µS/cm			1129	
Depth to Water	ft			31.76	
Dissolved Oxygen	mg/L			0.16	
pH	Std Unit			6.23	
Temperature	deg C			14.3	
Turbidity	NTU			0.69	
X749-122G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			155J	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			1.73	
1,1-Dichloroethane	µg/L			53.8	
1,1-Dichloroethene	µg/L			213J	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			2.16	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			4.73	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			2.06	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			46	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-122G					
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.97J	
Trichloroethene	µg/L			723J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			861	
Depth to Water	ft			38.48	
Dissolved Oxygen	mg/L			3.27	
pH	Std Unit			6	
Temperature	deg C			19.1	
Turbidity	NTU			25.7	
X749-123G					
Metals					
Beryllium	µg/L			0.2QU UJ	
Cadmium	µg/L			0.3U U	
Chromium	µg/L			71 =	
Manganese	µg/L			25.8 =	
Nickel	µg/L			17.4 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-123G					
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.34J J	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			1.65 =	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			0.5U U	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			72.4 =	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			1604	
Depth to Water	ft			14.02	
Dissolved Oxygen	mg/L			0.15	
pH	Std Unit			5.81	
Temperature	deg C			17.6	
Turbidity	NTU			23.9	
X749-124G					
Metals					
Beryllium	µg/L			0.2QU UJ	
Cadmium	µg/L			0.3U U	
Chromium	µg/L			83.7 =	
Manganese	µg/L			27.4 =	
Nickel	µg/L			12.2 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-124G					
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U U	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			0.5U U	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			1.13 =	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			1729	
Depth to Water	ft			14.51	
Dissolved Oxygen	mg/L			0.13	
pH	Std Unit			6.17	
Temperature	deg C			16.5	
Turbidity	NTU			38.2	
X749-125G					
Metals					
Beryllium	µg/L			0.2QU UJ	
Cadmium	µg/L			0.3U U	
Chromium	µg/L			157 =	
Manganese	µg/L			44.8 =	
Nickel	µg/L			14.2 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-125G					
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.38J J	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U U	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			0.5U U	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			3.34 =	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			1900	
Depth to Water	ft			14.38	
Dissolved Oxygen	mg/L			0.1	
pH	Std Unit			5.86	
Temperature	deg C			16.2	
Turbidity	NTU			21.5	
X749-126G					
Metals					
Beryllium	µg/L			0.2QU UJ 0.2QU UJ	
Cadmium	µg/L			0.3U U 0.3U U	
Chromium	µg/L			3U U 3U U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter		Fourth Quarter
X749-126G						
Manganese	µg/L			43.3	= 39.2 =	
Nickel	µg/L			6.9	= 6.35 =	
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L			0.333U	U 0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	U 0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U	U 0.333U U	
1,1-Dichloroethane	µg/L			0.333U	U 0.333U U	
1,1-Dichloroethene	µg/L			0.333U	U 0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U	U 0.333U U	
1,2-Dichloroethane	µg/L			0.333U	U 0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U	U 0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U	U 0.333U U	
2-Butanone	µg/L			1.67U	U 1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U	U 1.67U U	
Acetone	µg/L			1.74U	U 1.74U U	
Benzene	µg/L			0.333U	U 0.333U U	
Bromodichloromethane	µg/L			0.333U	U 0.333U U	
Bromoform	µg/L			0.333U	U 0.333U U	
Bromomethane	µg/L			0.337U	U 0.337U U	
Carbon disulfide	µg/L			1.67U	U 1.67U U	
Carbon tetrachloride	µg/L			0.333U	U 0.333U U	
Chlorobenzene	µg/L			0.333U	U 0.333U U	
Chloroethane	µg/L			0.333U	U 0.333U U	
Chloroform	µg/L			0.333U	U 0.333U U	
Chloromethane	µg/L			0.333U	U 0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U	U 0.333U U	
Dibromochloromethane	µg/L			0.333U	U 0.333U U	
Ethylbenzene	µg/L			0.333U	U 0.333U U	
m,p-Xylenes	µg/L			0.5U	U 0.5U U	
Methylene chloride	µg/L			0.5U	U 0.5U U	
Tetrachloroethene	µg/L			0.333U	U 0.333U U	
Toluene	µg/L			0.333U	U 0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U	U 0.333U U	
Trichloroethene	µg/L			1.05	= 1.02 =	
Trichlorofluoromethane	µg/L			0.333U	U 0.333U U	
Vinyl chloride	µg/L			0.333U	U 0.333U U	
Field Measurements						
Conductivity	µS/cm			1051		
Depth to Water	ft			10.92		
Dissolved Oxygen	mg/L			0.12		
pH	Std Unit			5.57		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-126G					
Temperature	deg C			15.8	
Turbidity	NTU			9.78	
X749-BG9G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U		0.333U U
1,1-Dichloroethane	µg/L		0.333U		0.333U U
1,1-Dichloroethene	µg/L		0.333U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U		0.333U U
1,2-Dichloroethane	µg/L		0.333U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U		0.333U U
2-Butanone	µg/L		1.67U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U		1.67U U
Acetone	µg/L		1.74U		1.74U U
Benzene	µg/L		0.333U		0.333U U
Bromodichloromethane	µg/L		0.333U		0.333U U
Bromoform	µg/L		0.333U		0.333U U
Bromomethane	µg/L		0.337U		0.337U U
Carbon disulfide	µg/L		1.67U		1.67U U
Carbon tetrachloride	µg/L		0.333U		0.333U U
Chlorobenzene	µg/L		0.333U		0.333U U
Chloroethane	µg/L		0.333U		0.333U U
Chloroform	µg/L		0.333U		0.333U U
Chloromethane	µg/L		0.333U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U		0.333U U
Dibromochloromethane	µg/L		0.333U		0.333U U
Ethylbenzene	µg/L		0.333U		0.333U U
m,p-Xylenes	µg/L		0.5U		0.5U U
Methylene chloride	µg/L		1.19J		2.6J UJ
Tetrachloroethene	µg/L		0.333U		0.333U U
Toluene	µg/L		0.333U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U		0.333U U
Trichloroethene	µg/L		0.333U		0.333U U
Trichlorofluoromethane	µg/L		0.333U		0.333U U
Vinyl chloride	µg/L		0.333U		0.333U U
Field Measurements					
Conductivity	µS/cm		597		605
Depth to Water	ft		16.65		22.99
Dissolved Oxygen	mg/L		2.13		0.77

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-BG9G					
pH	Std Unit		6.54		6.35
Temperature	deg C		16.6		14.8
Turbidity	NTU		2.99		1.08
X749-PZ01G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		0.333U		
1,1-Dichloroethene	µg/L		0.333U		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		2.06J		
Benzene	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		0.333U		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		1.1J		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
Trichloroethene	µg/L		0.333U		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		0.333U		
Field Measurements					
Conductivity	µS/cm		133.2		
Depth to Water	ft		6.86		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ01G					
Dissolved Oxygen	mg/L		0.89		
pH	Std Unit		5.77		
Temperature	deg C		18		
Turbidity	NTU		28.9		
X749-PZ02G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U		0.333U
1,1-Dichloroethane	µg/L		0.333U		0.333U
1,1-Dichloroethene	µg/L		0.333U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U		0.333U
1,2-Dichloroethane	µg/L		0.333U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U		0.333U
2-Butanone	µg/L		1.67U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U		1.67U
Acetone	µg/L		1.74U		1.74U
Benzene	µg/L		0.333U		0.333U
Bromodichloromethane	µg/L		0.333U		0.333U
Bromoform	µg/L		0.333U		0.333U
Bromomethane	µg/L		0.337U		0.337U
Carbon disulfide	µg/L		1.67U		1.67U
Carbon tetrachloride	µg/L		0.333U		0.333U
Chlorobenzene	µg/L		0.333U		0.333U
Chloroethane	µg/L		0.333U		0.333U
Chloroform	µg/L		0.333U		1.08
Chloromethane	µg/L		0.333U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U		0.333U
Dibromochloromethane	µg/L		0.333U		0.333U
Ethylbenzene	µg/L		0.333U		0.333U
m,p-Xylenes	µg/L		0.5U		0.5U
Methylene chloride	µg/L		0.75J		0.84J
Tetrachloroethene	µg/L		0.333U		0.333U
Toluene	µg/L		0.333U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U		0.333U
Trichloroethene	µg/L		0.333U		0.333U
Trichlorofluoromethane	µg/L		0.333U		0.333U
Vinyl chloride	µg/L		0.333U		0.333U
Radionuclides					
Technetium-99	pCi/L		-2.17U U		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ02G					
Uranium	µg/L		0.00000118U U		
Uranium-233/234	pCi/L		0.00734U U		
Uranium-235/236	pCi/L		-0.00863U U		
Uranium-238	pCi/L		-0.00854U U		
Field Measurements					
Conductivity	µS/cm		237.5		272.7
Depth to Water	ft		5.69		8.25
Dissolved Oxygen	mg/L		1.15		1.36
pH	Std Unit		6.03		6.05
Temperature	deg C		16.7		14.9
Turbidity	NTU		23.7		9.79
X749-PZ03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ03G					
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		276.5		269.1
Depth to Water	ft		7.28		10.42
Dissolved Oxygen	mg/L		1.39		1.41
pH	Std Unit		6.04		5.97
Temperature	deg C		14.9		15
Turbidity	NTU		29.7		5.01
X749-PZ04G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		1U U		
Nickel	µg/L		0.6U U		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U	0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ04G					
Chloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U	0.5U U
Methylene chloride	µg/L	1.19J	0.5U U	1.36J	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Trichloroethene	µg/L	0.333U	0.59J J	0.41J	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Radionuclides					
Technetium-99	pCi/L		2.92U U		
Uranium	µg/L		0.116U U		
Uranium-233/234	pCi/L		0.071U U		
Uranium-235/236	pCi/L		-0.00543U U		
Uranium-238	pCi/L		0.039U U		
Field Measurements					
Conductivity	µS/cm	448.2	459.4	448.8	434.2
Depth to Water	ft	16.89	16.31	19.06	20.25
Dissolved Oxygen	mg/L	0.12	0.23	0.2	0.31
pH	Std Unit	6.19	6.27	6.28	6.31
Temperature	deg C	12.6	14.3	15.6	14
Turbidity	NTU	3.05	1.22	1.46	0.87
X749-PZ05G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ05G					
Bromoform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U	0.5U U
Methylene chloride	µg/L	1.21J	0.5U U	0.5U	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U	0.333U U
Field Measurements					
Conductivity	µS/cm	343.7	377.6	369.2	359.8
Depth to Water	ft	18.5	16.69	21.84	22.75
Dissolved Oxygen	mg/L	5.69	5.11	9.53	10.09
pH	Std Unit	6.73	7.12	6.73	7.45
Temperature	deg C	12	15.4	15.4	16
Turbidity	NTU	19.9	6.92	19.7	4.21
X749-PZ06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		2.27 =		2.57 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.35J J		0.41J J
1,1-Dichloroethane	µg/L		8.18 =		10.7 =
1,1-Dichloroethene	µg/L		22.2 =		29.7 =
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.59J J		0.93J J
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ06G					
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.61J J		0.81J J
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		1.29 =		1.75 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5U U
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		18.3 =		23.2 =
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		489.5		447.1
Depth to Water	ft		10.44		14.5
Dissolved Oxygen	mg/L		0.33		0.39
pH	Std Unit		6.08		6.09
Temperature	deg C		12.4		16.3
Turbidity	NTU		3.62		5.34
X749-PZ07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U 0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U 0.333U	
1,1,2-Trichloroethane	µg/L			0.333U 0.333U	
1,1-Dichloroethane	µg/L			0.333U 0.333U	
1,1-Dichloroethene	µg/L			0.333U 0.333U	
1,2-Dichlorobenzene	µg/L			0.333U 0.333U	
1,2-Dichloroethane	µg/L			0.333U 0.333U	
1,2-Dimethylbenzene	µg/L			0.333U 0.333U	
1,4-Dichlorobenzene	µg/L			0.333U 0.333U	
2-Butanone	µg/L			1.67U 1.67U	
4-Methyl-2-pentanone	µg/L			1.67U 1.67U	
Acetone	µg/L			1.74U 1.74U	

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter		Fourth Quarter
X749-PZ07G						
Benzene	µg/L			0.333U	0.333U	
Bromodichloromethane	µg/L			0.333U	0.333U	
Bromoform	µg/L			0.333U	0.333U	
Bromomethane	µg/L			0.337U	0.337U	
Carbon disulfide	µg/L			1.67U	1.67U	
Carbon tetrachloride	µg/L			0.333U	0.333U	
Chlorobenzene	µg/L			0.333U	0.333U	
Chloroethane	µg/L			0.333U	0.333U	
Chloroform	µg/L			0.333U	0.333U	
Chloromethane	µg/L			0.333U	0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	0.333U	
Dibromochloromethane	µg/L			0.333U	0.333U	
Ethylbenzene	µg/L			0.333U	0.333U	
m,p-Xylenes	µg/L			0.5U	0.5U	
Methylene chloride	µg/L			3.48J	3.39J	
Tetrachloroethene	µg/L			0.333U	0.333U	
Toluene	µg/L			0.333U	0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	0.333U	
Trichloroethene	µg/L			2.5	2.36	
Trichlorofluoromethane	µg/L			0.333U	0.333U	
Vinyl chloride	µg/L			0.333U	0.333U	
Field Measurements						
Conductivity	µS/cm			337.5		
Depth to Water	ft			13.39		
Dissolved Oxygen	mg/L			1.61		
pH	Std Unit			6.34		
Temperature	deg C			18		
Turbidity	NTU			1.71		
X749-PZ08G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L		0.333U			
1,1,2,2-Tetrachloroethane	µg/L		0.333U			
1,1,2-Trichloroethane	µg/L		0.333U			
1,1-Dichloroethane	µg/L		0.8J			
1,1-Dichloroethene	µg/L		0.39J			
1,2-Dichlorobenzene	µg/L		0.333U			
1,2-Dichloroethane	µg/L		0.333U			
1,2-Dimethylbenzene	µg/L		0.333U			
1,4-Dichlorobenzene	µg/L		0.333U			
2-Butanone	µg/L		1.67U			
4-Methyl-2-pentanone	µg/L		1.67U			

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ08G					
Acetone	µg/L		1.74U		
Benzene	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		2.25		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		0.62J		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
Trichloroethene	µg/L		2.78		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		0.66J		
Field Measurements					
Conductivity	µS/cm		430.3		
Depth to Water	ft		11.98		
Dissolved Oxygen	mg/L		2.81		
pH	Std Unit		5.18		
Temperature	deg C		18		
Turbidity	NTU		260		
X749-PZ09G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.59J		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		2.01		
1,1-Dichloroethene	µg/L		5.64		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ09G					
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Benzene	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		8.26		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		1.23J		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
Trichloroethene	µg/L		28.5		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		0.38J		
Radionuclides					
Technetium-99	pCi/L		89.5 =		
Uranium	µg/L		13.6 =		
Uranium-233/234	pCi/L		4.35 =		
Uranium-235/236	pCi/L		0.222 =		
Uranium-238	pCi/L		4.55 =		
Field Measurements					
Conductivity	µS/cm		1296		
Depth to Water	ft		23.6		
Dissolved Oxygen	mg/L		0.33		
pH	Std Unit		6.55		
Temperature	deg C		15.6		
Turbidity	NTU		3.25		
X749-PZ10G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		3.99		3.35 = 3.42 =
1,1,2,2-Tetrachloroethane	µg/L		0.333U		0.333U U 0.333U U
1,1,2-Trichloroethane	µg/L		0.46J		0.43J J 0.46J J

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ10G					
1,1-Dichloroethane	µg/L		0.8J		0.88J J 0.72J J
1,1-Dichloroethene	µg/L		135J		135 = 147J J
1,2-Dichlorobenzene	µg/L		0.333U		0.333U U 0.333U U
1,2-Dichloroethane	µg/L		0.56J		0.68J J 0.61J J
1,2-Dimethylbenzene	µg/L		0.333U		0.333U U 0.333U U
1,4-Dichlorobenzene	µg/L		0.333U		0.333U U 0.333U U
2-Butanone	µg/L		1.67U		1.67U U 1.67U U
4-Methyl-2-pentanone	µg/L		1.67U		1.67U U 1.67U U
Acetone	µg/L		1.74U		1.74U U 1.74U U
Benzene	µg/L		0.333U		0.333U U 0.333U U
Bromodichloromethane	µg/L		0.333U		0.333U U 0.333U U
Bromoform	µg/L		0.333U		0.333U U 0.333U U
Bromomethane	µg/L		0.337U		0.337U U 0.337U U
Carbon disulfide	µg/L		1.67U		1.67U U 1.67U U
Carbon tetrachloride	µg/L		0.333U		0.333U U 0.333U U
Chlorobenzene	µg/L		0.333U		0.333U U 0.333U U
Chloroethane	µg/L		0.333U		0.333U U 0.333U U
Chloroform	µg/L		29.5		31.1 = 29.8 =
Chloromethane	µg/L		0.333U		0.333U U 0.333U U
cis-1,2-Dichloroethene	µg/L		0.72J		0.59J J 0.67J J
Dibromochloromethane	µg/L		0.333U		0.333U U 0.333U U
Ethylbenzene	µg/L		0.333U		0.333U U 0.333U U
m,p-Xylenes	µg/L		0.5U		0.5U U 0.5U U
Methylene chloride	µg/L		1.3J		2.82J UJ 3.06J UJ
Tetrachloroethene	µg/L		0.333U		0.333U U 0.333U U
Toluene	µg/L		0.333U		0.333U U 0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U		0.333U U 0.333U U
Trichloroethene	µg/L		420J		401 = 459J J
Trichlorofluoromethane	µg/L		0.333U		0.333U U 0.333U U
Vinyl chloride	µg/L		0.333U		0.333U U 0.333U U
Radionuclides					
Technetium-99	pCi/L		13.7 =		
Uranium	µg/L		0.127U U		
Uranium-233/234	pCi/L		0.0924JU UJ		
Uranium-235/236	pCi/L		-0.00417U U		
Uranium-238	pCi/L		0.0428U U		
Field Measurements					
Conductivity	µS/cm		517		507
Depth to Water	ft		18.71		23.14
Dissolved Oxygen	mg/L		0.23		1.54
pH	Std Unit		6.08		6.11

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ10G					
Temperature	deg C		15		14.6
Turbidity	NTU		2.82		8.3
X749-PZ11G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		1.51		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		2.12		
1,1-Dichloroethene	µg/L		3.29		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Benzene	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		16.7		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		0.5U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
Trichloroethene	µg/L		32.1		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		0.58J		
Radionuclides					
Technetium-99	pCi/L		1.62U U		
Uranium	µg/L		6.78 =		
Uranium-233/234	pCi/L		2.42 =		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ11G					
Uranium-235/236	pCi/L		0.0603U U		
Uranium-238	pCi/L		2.27 =		
Field Measurements					
Conductivity	µS/cm		1099		
Depth to Water	ft		26.71		
Dissolved Oxygen	mg/L		0.61		
pH	Std Unit		6.35		
Temperature	deg C		15.6		
Turbidity	NTU		52.2		
X749-PZ12G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		2.06		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		17.2		
1,1-Dichloroethene	µg/L		21.5		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Benzene	µg/L		0.4J		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		7.39		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		0.5U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.58J		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ12G					
Trichloroethene	µg/L		2.86		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		1.03		
Radionuclides					
Technetium-99	pCi/L		-1.04U U		
Uranium	µg/L		9.22 =		
Uranium-233/234	pCi/L		2.8 =		
Uranium-235/236	pCi/L		0.166 =		
Uranium-238	pCi/L		3.07 =		
Field Measurements					
Conductivity	µS/cm		886		
Depth to Water	ft		30.74		
Dissolved Oxygen	mg/L		0.24		
pH	Std Unit		5.42		
Temperature	deg C		16.1		
Turbidity	NTU		1000		
X749-PZ13G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		7.57		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		26.7		
1,1-Dichloroethene	µg/L		56		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.67J		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Benzene	µg/L		0.71J		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		13.7		

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-PZ13G					
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		0.83J		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.64J		
Trichloroethene	µg/L		29.4		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		1.08		
Radionuclides					
Technetium-99	pCi/L		2.11U U		
Uranium	µg/L		2.5 J		
Uranium-233/234	pCi/L		0.83 =		
Uranium-235/236	pCi/L		0.0595JU UJ		
Uranium-238	pCi/L		0.83 =		
Field Measurements					
Conductivity	µS/cm		834		
Depth to Water	ft		37.81		
Dissolved Oxygen	mg/L		0.55		
pH	Std Unit		5.75		
Temperature	deg C		16.6		
Turbidity	NTU		529		
X749-WPW					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		29.4 = 28.6 =		48.5
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.53J J 0.51J J		0.86J
1,1-Dichloroethane	µg/L		38.2 = 36.8 =		53.5
1,1-Dichloroethene	µg/L		77.6 = 75.5 =		86
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U
1,2-Dichloroethane	µg/L		5.8 = 5.96 =		7.41
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U
2-Butanone	µg/L		1.67U U 1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		1.67U
Acetone	µg/L		1.74U U 1.74U U		1.74U
Benzene	µg/L		0.333U U 0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U 0.333U U		0.333U
Bromoform	µg/L		0.333U U 0.333U U		0.333U
Bromomethane	µg/L		0.337U U 0.337U U		0.337U

X-749 Contaminated Materials Disposal Facility/X-120 Former Training Facility – 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749-WPW					
Carbon disulfide	µg/L		1.67U U 1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U 0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U 0.333U U		0.333U
Chloroethane	µg/L		0.333U U 0.333U U		0.333U
Chloroform	µg/L		7.12 J 7.01 J		13.6
Chloromethane	µg/L		0.333U U 0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		24 = 22.1 =		26.2
Dibromochloromethane	µg/L		0.333U U 0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U 0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U 0.5U U		0.5U
Methylene chloride	µg/L		0.5U U 0.5U U		2.67J
Tetrachloroethene	µg/L		2.07 = 2 =		3.78
Toluene	µg/L		0.333U U 0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U
Trichloroethene	µg/L		225 = 225 =		289
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		0.333U
Vinyl chloride	µg/L		2.13 = 2.04 =		1.83
Radionuclides					
Americium-241	pCi/L		-0.0071U U 0.0261U U		
Neptunium-237	pCi/L		-0.0383U U -0.0257U U		
Plutonium-238	pCi/L		0.00868U U -0.0018U U		
Plutonium-239/240	pCi/L		-0.0128U U 0.0119U U		
Technetium-99	pCi/L		1790 J 1820 J		
Uranium	µg/L		0.957 = 0.617 J		
Uranium-233/234	pCi/L		0.278 = 0.25 =		
Uranium-235/236	pCi/L		0.00806U U 0.0464JU U		
Uranium-238	pCi/L		0.321 = 0.2 UJ		
Field Measurements					
Conductivity	µS/cm		1255		1118
Depth to Water	ft		43.98		42.7
Dissolved Oxygen	mg/L		2.66		4.75
pH	Std Unit		6.54		6.53
Temperature	deg C		15.8		12.4
Turbidity	NTU		67.4		12.4

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ANALYTICAL DATA TABLES
PK LANDFILL

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MH GW-4					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			6J UJ	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333JU UJ	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			9.31 UJ	
Tetrachloroethene	µg/L			0.46J J	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			1.01J J	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			1259	
pH	Std Unit			7.68	
Temperature	deg C			22.6	
Turbidity	NTU			1000	

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MH GW-5					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U 0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U 0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U 0.333U U	
1,1-Dichloroethane	µg/L			0.333U U 0.333U U	
1,1-Dichloroethene	µg/L			0.333U U 0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U 0.333U U	
1,2-Dichloroethane	µg/L			0.333U U 0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U 0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U 0.333U U	
2-Butanone	µg/L			1.67U U 1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U 1.67U U	
Acetone	µg/L			1.74JU UJ 1.74JU UJ	
Benzene	µg/L			0.333U U 0.333U U	
Bromodichloromethane	µg/L			0.333U U 0.333U U	
Bromoform	µg/L			0.333U U 0.333U U	
Bromomethane	µg/L			0.337U U 0.337U U	
Carbon disulfide	µg/L			1.67U U 1.67U U	
Carbon tetrachloride	µg/L			0.333U U 0.333U U	
Chlorobenzene	µg/L			0.333U U 0.333U U	
Chloroethane	µg/L			0.333U U 0.333U U	
Chloroform	µg/L			0.333U U 0.333U U	
Chloromethane	µg/L			0.333U U 0.333U U	
cis-1,2-Dichloroethene	µg/L			0.49J J 0.47J J	
Dibromochloromethane	µg/L			0.333U U 0.333U U	
Ethylbenzene	µg/L			0.333U U 0.333U U	
m,p-Xylenes	µg/L			0.5U U 0.5U U	
Methylene chloride	µg/L			8.73 UJ 8.67 UJ	
Tetrachloroethene	µg/L			0.333JU UJ 0.333U U	
Toluene	µg/L			0.333U U 0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U 0.333U U	
Trichloroethene	µg/L			0J J 0.333JU UJ	
Trichlorofluoromethane	µg/L			0.333U U 0.333U U	
Vinyl chloride	µg/L			0.333U U 0.333U U	
Field Measurements					
Conductivity	µS/cm			1035	
pH	Std Unit			7.19	
Temperature	deg C			18	
Turbidity	NTU			67.4	

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-10G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333*U UJ
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333*U UJ
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333*U UJ
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333*U UJ
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		1.84J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333*U UJ
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		745		487.8
Depth to Water	ft		7.14		9.95
Dissolved Oxygen	mg/L		0.85		0.25
pH	Std Unit		5.72		5.47
Temperature	deg C		14.7		17
Turbidity	NTU		1.45		1.96

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-11G					
Metals					
Beryllium	µg/L		0.546 =		
Cadmium	µg/L		0.821J J		
Chromium	µg/L		91.2 =		
Manganese	µg/L		195 =		
Nickel	µg/L		36.7 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333*U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333*U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333*U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333*U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		1.88J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333*U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-11G					
Field Measurements					
Conductivity	µS/cm		745		1420
Depth to Water	ft		7.96		10.85
Dissolved Oxygen	mg/L		1.67		1.52
pH	Std Unit		5.51		5.19
Temperature	deg C		14.4		16.1
Turbidity	NTU		48.9		123
PK-14G					
Metals					
Beryllium	µg/L		0.2QU UJ		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		2290 =		
Nickel	µg/L		1.82J J		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333*U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333*U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333*U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333*U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-14G					
Methylene chloride	µg/L		0.5U U		1.96J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333*U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		749.7		1589
Depth to Water	ft		6.37		6.3
Dissolved Oxygen	mg/L		2.99		3.32
pH	Std Unit		6.41		6.31
Temperature	deg C		14.4		17.6
Turbidity	NTU		377		337
PK-15B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333*U U 0.333*U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U 0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333*U U 0.333*U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U 0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U 0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333*U U 0.333*U U
2-Butanone	µg/L		1.67U U		1.67U U 1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U 1.67U U
Acetone	µg/L		1.74U U		1.74U U 1.74U U
Benzene	µg/L		0.333U U		0.333U U 0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U 0.333U U
Bromoform	µg/L		0.333U U		0.333U U 0.333U U
Bromomethane	µg/L		0.337U U		0.337U U 0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U 1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U 0.333U U
Chlorobenzene	µg/L		0.333U U		0.333*U U 0.333*U U
Chloroethane	µg/L		0.333U U		0.333U U 0.333U U
Chloroform	µg/L		0.333U U		0.333U U 0.333U U
Chloromethane	µg/L		0.333U U		0.333U U 0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U 0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U 0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U 0.333U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-15B					
m,p-Xylenes	µg/L		0.5U U		0.5U U 0.5U U
Methylene chloride	µg/L		0.5U U		1.98J UJ 1.94J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U 0.333U U
Toluene	µg/L		0.333U U		0.333*U U 0.333*U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U 0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U 0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U 0.333U U
Vinyl chloride	µg/L		0.43J J		0.333U U 0.333U U
Field Measurements					
Conductivity	µS/cm		746.4		1163
Depth to Water	ft		6.79		5.48
Dissolved Oxygen	mg/L		3.97		1.12
pH	Std Unit		6.34		6.63
Temperature	deg C		12		16
Turbidity	NTU		213		243
PK-16G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333*U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333*U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333*U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333*U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-16G					
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		1.88J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333*U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		751.3		1137
Depth to Water	ft		4.35		4.55
Dissolved Oxygen	mg/L		3.77		4.18
pH	Std Unit		7.99		6.86
Temperature	deg C		15.7		16.9
Turbidity	NTU		15.1		16
PK-17B					
Metals					
Beryllium	µg/L		0.202J J		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		2160 =		
Nickel	µg/L		124 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		3.99 =		3.76 =
1,1-Dichloroethene	µg/L		0.9J J		0.65J J
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.6J J		0.62J J
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-17B					
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		3.68 =		3.84 =
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		56.8 =		58.3 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		1.74J UJ		0.98J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		2.06 =		1.91 =
Trichloroethene	µg/L		0.59J J		0.49J J
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		24.5 =		18.5 =
Field Measurements					
Conductivity	µS/cm		894		1046
Depth to Water	ft		7.05		7.42
Dissolved Oxygen	mg/L		5		3.27
pH	Std Unit		6.23		5.99
Temperature	deg C		15.3		17.2
Turbidity	NTU		121		46.7
PK-18B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-18B					
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		1.11J UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		1016		1204
Depth to Water	ft		3.85		4.04
Dissolved Oxygen	mg/L		3.21		3.11
pH	Std Unit		7.01		7
Temperature	deg C		13.9		16.7
Turbidity	NTU		45.6		38.6
PK-19B					
Metals					
Beryllium	µg/L		0.2U U 0.2U U		
Cadmium	µg/L		0.3U U 0.3U U		
Chromium	µg/L		3U U 3U U		
Manganese	µg/L		437 J 432 =		
Nickel	µg/L		1.11J J 1.19J J		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,1-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U U
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U U
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		0.333U U
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-19B					
2-Butanone	µg/L		1.67U U 1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		1.67U U
Acetone	µg/L		1.74U U 1.74U U		1.74U U
Benzene	µg/L		0.333U U 0.333U U		0.333U U
Bromodichloromethane	µg/L		0.333U U 0.333U U		0.333U U
Bromoform	µg/L		0.333U U 0.333U U		0.333U U
Bromomethane	µg/L		0.337U U 0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U 1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U 0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U 0.333U U		0.333U U
Chloroethane	µg/L		0.333U U 0.333U U		0.8J J
Chloroform	µg/L		0.333U U 0.333U U		0.333U U
Chloromethane	µg/L		0.333U U 0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Dibromochloromethane	µg/L		0.333U U 0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U 0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U 0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U 0.5U U		1.04J UJ
Tetrachloroethene	µg/L		0.333U U 0.333U U		0.333U U
Toluene	µg/L		0.333U U 0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U 0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		0.333U U
Vinyl chloride	µg/L		0.333U U 0.333U U		0.333U U
Field Measurements					
Conductivity	µS/cm		786		1050
Depth to Water	ft		7.98		9.18
Dissolved Oxygen	mg/L		0.67		1.9
pH	Std Unit		6.86		6.64
Temperature	deg C		12.7		14.1
Turbidity	NTU		12.8		10.2
PK-21B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U U
1,1-Dichloroethane	µg/L		110 -		83.9 -
1,1-Dichloroethene	µg/L		0.72J J		0.73J J
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U U
1,2-Dichloroethane	µg/L		0.333U U		0.4J J
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-21B					
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U U
2-Butanone	µg/L		1.67U U		1.67U U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U U
Acetone	µg/L		1.74U U		1.74U U
Benzene	µg/L		0.67J J		0.71J J
Bromodichloromethane	µg/L		0.333U U		0.333U U
Bromoform	µg/L		0.333U U		0.333U U
Bromomethane	µg/L		0.337U U		0.337U U
Carbon disulfide	µg/L		1.67U U		1.67U U
Carbon tetrachloride	µg/L		0.333U U		0.333U U
Chlorobenzene	µg/L		0.333U U		0.333U U
Chloroethane	µg/L		0.333U U		0.333U U
Chloroform	µg/L		0.333U U		0.333U U
Chloromethane	µg/L		0.333U U		0.333U U
cis-1,2-Dichloroethene	µg/L		8.66 =		7.35 =
Dibromochloromethane	µg/L		0.333U U		0.333U U
Ethylbenzene	µg/L		0.333U U		0.333U U
m,p-Xylenes	µg/L		0.5U U		0.5U U
Methylene chloride	µg/L		0.5U U		0.5*U UJ
Tetrachloroethene	µg/L		0.333U U		0.333U U
Toluene	µg/L		0.333U U		0.333U U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U U
Trichloroethene	µg/L		0.333U U		0.333U U
Trichlorofluoromethane	µg/L		0.333U U		0.333U U
Vinyl chloride	µg/L		6.27 =		7.56 =
Field Measurements					
Conductivity	µS/cm		583		687
Depth to Water	ft		7.33		9.32
Dissolved Oxygen	mg/L		2.75		0.15
pH	Std Unit		7.16		6.9
Temperature	deg C		11.7		15.7
Turbidity	NTU		11.6		17
PK-PL6					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.7J 0.64J	1.84 = 1.86 =	0.333U U 0.333U U	0.45J J 0.41J J
1,1,2,2-Tetrachloroethane	µg/L	0.333U 0.333U	0.333U U 0.333U U	0.333U U 0.333U U	0.333U U 0.333U U
1,1,2-Trichloroethane	µg/L	0.333U 0.333U	0.333U U 0.333U U	0.333U U 0.333U U	0.333U U 0.333U U
1,1-Dichloroethane	µg/L	4.13 3.82	6.12 = 6.25 =	0.94J J 0.62J J	4.08 = 3.58 =
1,1-Dichloroethene	µg/L	0.47J 0.5J	1.37 = 1.26 =	0.333U UJ 0.333U UJ	0.54J J 0.44J J
1,2-Dichlorobenzene	µg/L	0.333U 0.333U	0.333U U 0.333U U	0.333U U 0.333U U	0.333U U 0.333U U
1,2-Dichloroethane	µg/L	0.333U 0.333U	0.333U U 0.333U U	0.333U U 0.333U U	0.333U U 0.333U U

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter		Second Quarter			Third Quarter			Fourth Quarter		
PK-PL6												
1,2-Dimethylbenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
2-Butanone	µg/L	1.67U	1.67U	1.67U	U	1.67U U	1.67U	U 1.67U	U	1.67U	U 1.67U	U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U	1.67U	U	1.67U U	1.67U	U 1.67U	U	1.67U	U 1.67U	U
Acetone	µg/L	1.74U	1.74U	1.74U	U	1.74U U	1.74U	U 1.74U	U	1.74U	U 1.74U	U
Benzene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Bromodichloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Bromoform	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Bromomethane	µg/L	0.337U	0.337U	0.337U	U	0.337U U	0.337U	U 0.337U	U	0.337U	U 0.337U	U
Carbon disulfide	µg/L	1.67U	1.67U	1.67U	U	1.67U U	1.67U	U 1.67U	U	1.67U	U 1.67U	U
Carbon tetrachloride	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Chlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Chloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Chloroform	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Chloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333QU	UJ	0.333QU UJ	0.333U	U 0.333U	U
cis-1,2-Dichloroethene	µg/L	0.82J	0.76J	1.34	=	1.41 =	0.333JU	UJ	0.333U U	0.98J	J 0.9J	J
Dibromochloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Ethylbenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
m,p-Xylenes	µg/L	0.5U	0.5U	0.5U	U	0.5U U	0.5U	U 0.5U	U	0.5U	U 0.5U	U
Methylene chloride	µg/L	2.12J	2.18J	0.5U	U	0.5U U	0.5U	U 0.5U	U	0.5U	U 0.5U	U
Tetrachloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Toluene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Trichloroethene	µg/L	0.58J	0.56J	1.74	=	1.87 =	0.333JU	UJ	0.333U U	0.5J	J 0.42J	J
Trichlorofluoromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333U	U 0.333U	U	0.333U	U 0.333U	U
Vinyl chloride	µg/L	0.333U	0.333U	0.333U	U	0.333U U	0.333QU	UJ	0.333QU UJ	0.6J	J 0.51J	J
Field Measurements												
Conductivity	µS/cm	735		765			882			833		
pH	Std Unit	7.01		6.91			7.65			6.92		
Temperature	deg C	8.4		14.7			25.1			19.5		
Turbidity	NTU	76.6		1000			7.83			491		
PK-PL6A												
Volatile Organic Compounds												
1,1,1-Trichloroethane	µg/L	0.79J		2.25	=		0.333U	U		0.83J	J	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U	U		0.333U	U		0.333U	U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U	U		0.333U	U		0.333U	U	
1,1-Dichloroethane	µg/L	4.94		7.6	=		7.72	=		7.42	=	
1,1-Dichloroethene	µg/L	0.58J		1.45	=		0.62J	UJ		1.01	=	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	U		0.333U	U		0.333U	U	
1,2-Dichloroethane	µg/L	0.333U		0.333U	U		0.333U	U		0.333U	U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	U		0.333U	U		0.333U	U	

PK Landfill – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PK-PL6A					
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U UJ	0.333U U
cis-1,2-Dichloroethene	µg/L	0.97J	1.65 =	3.35 =	1.77 =
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	2.01J	0.5U U	3.22J J	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.65J	2.01 =	4.13 =	0.89J J
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.37J J	0.333U UJ	1.26 =
Field Measurements					
Conductivity	µS/cm	732	717	824	813
pH	Std Unit	7.08	6.88	6.47	7
Temperature	deg C	8.6	18.3	22.5	20.6
Turbidity	NTU	19.1	5.29	1.4	37.2

ANALYTICAL DATA TABLES
QUADRANT I GROUNDWATER INVESTIGATIVE (5-UNIT) AREA

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 - or 0.16U *U*

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Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X230K-14G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.35J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			3.52	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1378	
Depth to Water	ft			13.15	
Dissolved Oxygen	mg/L			1.51	
pH	Std Unit			5.41	
Temperature	deg C			16.4	
Turbidity	NTU			0.83	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter		Fourth Quarter
X230K-15G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L			0.333U	0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	0.333U	
1,1-Dichloroethane	µg/L			0.333U	0.333U	
1,1-Dichloroethene	µg/L			0.333U	0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	0.333U	
1,2-Dichloroethane	µg/L			0.333U	0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	0.333U	
2-Butanone	µg/L			1.67U	1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	1.67U	
Acetone	µg/L			1.74U	1.74U	
Benzene	µg/L			0.333U	0.333U	
Bromodichloromethane	µg/L			0.333U	0.333U	
Bromoform	µg/L			0.333U	0.333U	
Bromomethane	µg/L			0.337U	0.337QU	
Carbon disulfide	µg/L			1.67U	1.67U	
Carbon tetrachloride	µg/L			0.333U	0.333U	
Chlorobenzene	µg/L			0.333U	0.333U	
Chloroethane	µg/L			0.333U	0.333U	
Chloroform	µg/L			0.333U	0.333U	
Chloromethane	µg/L			0.333QU	0.333QU	
cis-1,2-Dichloroethene	µg/L			0.333U	0.333U	
Dibromochloromethane	µg/L			0.333U	0.333U	
Ethylbenzene	µg/L			0.333U	0.333U	
m,p-Xylenes	µg/L			0.5U	0.5U	
Methylene chloride	µg/L			0.5U	0.5U	
Tetrachloroethene	µg/L			0.333U	0.333U	
Toluene	µg/L			0.333U	0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	0.333U	
Trichloroethene	µg/L			1.18	1.09	
Trichlorofluoromethane	µg/L			0.333U	0.333U	
Vinyl chloride	µg/L			0.333U	0.333QU	
Field Measurements						
Conductivity	µS/cm			1200		
Depth to Water	ft			12.39		
Dissolved Oxygen	mg/L			1.26		
pH	Std Unit			5.01		
Temperature	deg C			15.8		
Turbidity	NTU			1.26		

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.49J			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	5.34			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	115			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	1632			
Depth to Water	ft	21.85			
Dissolved Oxygen	mg/L	31.6			
pH	Std Unit	5.57			
Temperature	deg C	16.9			
Turbidity	NTU	10.8			

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter		Second Quarter	Third Quarter	Fourth Quarter
X231B-11G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.333U	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U	0.333U			
1,1-Dichloroethane	µg/L	0.333U	0.333U			
1,1-Dichloroethene	µg/L	0.81J	0.78J			
1,2-Dichlorobenzene	µg/L	0.333U	0.333U			
1,2-Dichloroethane	µg/L	0.333U	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U	0.333U			
2-Butanone	µg/L	1.67U	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U	1.67U			
Acetone	µg/L	1.74U	1.74U			
Benzene	µg/L	0.333U	0.333U			
Bromodichloromethane	µg/L	0.333U	0.333U			
Bromoform	µg/L	0.333U	0.333U			
Bromomethane	µg/L	0.337QU	0.337QU			
Carbon disulfide	µg/L	1.67U	1.67U			
Carbon tetrachloride	µg/L	0.333U	0.333U			
Chlorobenzene	µg/L	0.333U	0.333U			
Chloroethane	µg/L	0.333U	0.333U			
Chloroform	µg/L	0.37J	0.35J			
Chloromethane	µg/L	0.333U	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U			
Dibromochloromethane	µg/L	0.333U	0.333U			
Ethylbenzene	µg/L	0.333U	0.333U			
m,p-Xylenes	µg/L	0.5U	0.5U			
Methylene chloride	µg/L	0.65J	0.5U			
Tetrachloroethene	µg/L	0.333U	0.333U			
Toluene	µg/L	0.333U	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U			
Trichloroethene	µg/L	0.43J	0.41J			
Trichlorofluoromethane	µg/L	0.333U	0.333U			
Vinyl chloride	µg/L	0.333U	0.333U			
Field Measurements						
Conductivity	µS/cm	1794				
Depth to Water	ft	19.7				
Dissolved Oxygen	mg/L	19.6				
pH	Std Unit	5.4				
Temperature	deg C	16.8				
Turbidity	NTU	8.49				

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-12G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.71J	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.57J	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			1.89	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			2031	
Depth to Water	ft			20.11	
Dissolved Oxygen	mg/L			0.44	
pH	Std Unit			5.39	
Temperature	deg C			18.7	
Turbidity	NTU			2.69	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-15G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			2.1	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1708	
Depth to Water	ft			17.55	
Dissolved Oxygen	mg/L			0.45	
pH	Std Unit			5.73	
Temperature	deg C			16.3	
Turbidity	NTU			0.48	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-16G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			1.08	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.54J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			2092	
Depth to Water	ft			18.25	
Dissolved Oxygen	mg/L			0.25	
pH	Std Unit			5.66	
Temperature	deg C			18.4	
Turbidity	NTU			3.66	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-23G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.79J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			1.14J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			4.59	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1582	
Depth to Water	ft			20.2	
Dissolved Oxygen	mg/L			0.49	
pH	Std Unit			5.56	
Temperature	deg C			16.7	
Turbidity	NTU			58.2	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-24B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	2.11J			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	1.79J			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.333U			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	2144			
Depth to Water	ft	20.15			
Dissolved Oxygen	mg/L	3.97			
pH	Std Unit	7.29			
Temperature	deg C	14.3			
Turbidity	NTU	1.38			

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-29G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.92J			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	4.42			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	463			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	2099			
Depth to Water	ft	14.39			
Dissolved Oxygen	mg/L	20.1			
pH	Std Unit	5.76			
Temperature	deg C	16			
Turbidity	NTU	1.18			

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-32B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.93J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1928	
Depth to Water	ft			22.55	
Dissolved Oxygen	mg/L			6.9	
pH	Std Unit			6.94	
Temperature	deg C			20.3	
Turbidity	NTU			7.3	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-36G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.79J	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			1.16	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			840	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			2235	
Depth to Water	ft			12.41	
Dissolved Oxygen	mg/L			0.24	
pH	Std Unit			3.93	
Temperature	deg C			18.6	
Turbidity	NTU			47	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-37G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			1.43	
1,1-Dichloroethene	µg/L			1.03	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			4.59	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.59J	
Trichloroethene	µg/L			10.9	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			1637	
Depth to Water	ft			15.94	
Dissolved Oxygen	mg/L			2.55	
pH	Std Unit			4.8	
Temperature	deg C			19.5	
Turbidity	NTU			5.06	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X231B-38G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.333U			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	1277			
Depth to Water	ft	18.58			
Dissolved Oxygen	mg/L	10.1			
pH	Std Unit	6.49			
Temperature	deg C	15.8			
Turbidity	NTU	94.2			

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X622-PZ01G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333QU	
cis-1,2-Dichloroethene	µg/L			2.68	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			1.17	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			916	
Depth to Water	ft			14.82	
Dissolved Oxygen	mg/L			0.01	
pH	Std Unit			6.53	
Temperature	deg C			15.4	
Turbidity	NTU			28.8	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X622-PZ02G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			1.4	
1,1-Dichloroethene	µg/L			19.6	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			33.8	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			1.26J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.57J	
Trichloroethene	µg/L			130	
Trichlorofluoromethane	µg/L			1.44	
Vinyl chloride	µg/L			0.61J	
Field Measurements					
Conductivity	µS/cm			198.1	
Depth to Water	ft			23.83	
Dissolved Oxygen	mg/L			0.38	
pH	Std Unit			5.1	
Temperature	deg C			16.2	
Turbidity	NTU			14.9	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X622-PZ03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.56J	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			2.25	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			1.01J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			44.2	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			895	
Depth to Water	ft			23.35	
Dissolved Oxygen	mg/L			0.25	
pH	Std Unit			5.38	
Temperature	deg C			16.3	
Turbidity	NTU			3.18	

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X710-01G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.47J			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	17.2			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	2332			
Depth to Water	ft	14.52			
Dissolved Oxygen	mg/L	15.5			
pH	Std Unit	5.97			
Temperature	deg C	17.2			
Turbidity	NTU	1.98			

Quadrant I Groundwater Investigative (5-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-09G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.6J	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.72J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Parameters					
Conductivity	µS/cm			1524	
Depth to Water	ft			19.57	
Dissolved Oxygen	mg/L			1.11	
pH	Std Unit			6.67	
Temperature	deg C			16.9	
Turbidity	NTU			329	

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ANALYTICAL DATA TABLES
X-749A CLASSIFIED MATERIALS DISPOSAL FACILITY

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***u***

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X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-02G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		99.7 =		
Beryllium	µg/L		0.347J J		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		22100 =		22600 =
Chromium	µg/L		3U U		
Cobalt	µg/L		7.83 =		
Copper	µg/L		0.749J UJ		
Iron	µg/L		154 =		30U U
Lead	µg/L		0.5U UJ		
Magnesium	µg/L		18100 =		
Manganese	µg/L		125 =		
Nickel	µg/L		17.5 =		
Potassium	µg/L		718 =		806 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		9150 =		12600 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		4.23J UJ		
Zinc	µg/L		16.9J UJ		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U UJ		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-02G					
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333QU UJ		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U UJ		
Radionuclides					
Technetium-99	pCi/L		1.85U U		
Uranium	µg/L		0.199U U		
Uranium-233/234	pCi/L		0.153U U		
Uranium-235/236	pCi/L		0.00646U U		
Uranium-238	pCi/L		0.0657U U		
Other Parameters					
Alkalinity	mg/L		39 =		37.6 =
Ammonia	mg/L		0.017U U		0.017*U UJ
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		11.2 =		17 =

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-02G					
Dissolved Solids	mg/L		181 =		
Nitrate/Nitrite	mg/L		5.4 =		4.34 =
Sulfate	mg/L		71.5 =		67.8 =
Field Measurements					
Conductivity	µS/cm		318.3		331.1
Depth to Water	ft		9.33		10.85
Dissolved Oxygen	mg/L		2.54		1.38
pH	Std Unit		5.3		5.21
Temperature	deg C		13.7		14.5
Turbidity	NTU		15.3		2.22
X749A-03G					
Metals					
Antimony	µg/L		1U U 1U U		
Arsenic	µg/L		2.54J J 2.41J J		
Barium	µg/L		31.1 = 30.8 =		
Beryllium	µg/L		0.2U U 0.2U U		
Cadmium	µg/L		0.3U U 0.3U U		
Calcium	µg/L		10400 = 10400 =		12100 =
Chromium	µg/L		4.25J J 4.09J J		
Cobalt	µg/L		0.954J J 0.909J J		
Copper	µg/L		1.44J UJ 1.51J UJ		
Iron	µg/L		2290 J 1810 J		184 =
Lead	µg/L		0.883J J 0.871J J		
Magnesium	µg/L		6000 = 5890 =		
Manganese	µg/L		27.9 = 25.8 =		
Nickel	µg/L		5.15 = 5 =		
Potassium	µg/L		643 = 573 =		619 =
Selenium	µg/L		1.5U U 1.5U U		
Silver	µg/L		0.3U U 0.3U U		
Sodium	µg/L		13300 = 13500 =		13200 =
Thallium	µg/L		0.6U U 0.6U U		
Vanadium	µg/L		9.49J UJ 9.61J UJ		
Zinc	µg/L		10.9J UJ 11J UJ		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U 0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U 0.333U U		
1,1-Dichloroethane	µg/L		0.333U U 0.333U U		
1,1-Dichloroethene	µg/L		0.333U UJ 0.333U UJ		
1,2,3-Trichloropropane	µg/L		0.333U U 0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-03G					
1,2-Dibromo-3-chloropropane	µg/L		0.333U U 0.333U U		
1,2-Dibromoethane	µg/L		0.333U U 0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		
1,2-Dichloroethane	µg/L		0.333U U 0.333U U		
1,2-Dichloropropane	µg/L		0.333U U 0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		
2-Butanone	µg/L		1.67U U 1.67U U		
2-Hexanone	µg/L		1.67U U 1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		
Acetone	µg/L		1.74U U 1.74U U		
Acrylonitrile	µg/L		1.67U U 1.67U U		
Benzene	µg/L		0.333U U 0.333U U		
Bromochloromethane	µg/L		0.333U U 0.333U U		
Bromodichloromethane	µg/L		0.333U U 0.333U U		
Bromoform	µg/L		0.333U U 0.333U U		
Bromomethane	µg/L		0.337U U 0.337U U		
Carbon disulfide	µg/L		1.67U U 1.67U U		
Carbon tetrachloride	µg/L		0.333U U 0.333U U		
Chlorobenzene	µg/L		0.333U U 0.333U U		
Chloroethane	µg/L		0.333U U 0.333U U		
Chloroform	µg/L		0.333U U 0.333U U		
Chloromethane	µg/L		0.333QU UJ 0.333QU UJ		
cis-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U 0.333U U		
Dibromochloromethane	µg/L		0.333U U 0.333U U		
Dibromomethane	µg/L		0.333U U 0.333U U		
Ethylbenzene	µg/L		0.333U U 0.333U U		
Iodomethane	µg/L		1.67U U 1.67U U		
m,p-Xylenes	µg/L		0.5U U 0.5U U		
Methylene chloride	µg/L		0.5U U 0.5U U		
Styrene	µg/L		0.333U U 0.333U U		
Tetrachloroethene	µg/L		0.333U U 0.333U U		
Toluene	µg/L		0.333U U 0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U 0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U 1.67U U		
Trichloroethene	µg/L		0.333U U 0.333U U		
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		
Vinyl acetate	µg/L		1.67U U 1.67U U		
Vinyl chloride	µg/L		0.333U UJ 0.333U UJ		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-03G					
Radionuclides					
Technetium-99	pCi/L		2.78U U 3.72U U		
Uranium	µg/L		0.372JU UJ 0.0583U U		
Uranium-233/234	pCi/L		0.0585U U -0.00173U U		
Uranium-235/236	pCi/L		-0.0123U U 0U U		
Uranium-238	pCi/L		0.125JU UJ 0.0196U U		
Other Parameters					
Alkalinity	mg/L		22 J 16.5 J		28 =
Ammonia	mg/L		0.017U U 0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U 8.95U U		
Chloride	mg/L		16.9 = 16.9 =		14.6 =
Dissolved Solids	mg/L		121 = 122 =		
Nitrate/Nitrite	mg/L		0.865 = 0.84 =		0.337 =
Sulfate	mg/L		32.1 = 32.4 =		30.8 =
Field Measurements					
Conductivity	µS/cm		186.7		191.8
Depth to Water	ft		15.38		16.88
Dissolved Oxygen	mg/L		7.24		1.85
pH	Std Unit		5.58		5.6
Temperature	deg C		14.2		14.5
Turbidity	NTU		48.7		10.7
X749A-04G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2.37J J		
Barium	µg/L		62.9 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		37000 =		70200 = 68000 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.814J J		
Copper	µg/L		0.973J J		
Iron	µg/L		1910 =		122 J 241 J
Lead	µg/L		0.915J J		
Magnesium	µg/L		22400 =		
Manganese	µg/L		30.1 =		
Nickel	µg/L		4.46 =		
Potassium	µg/L		803 =		1930 = 1830 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		49400 =		37300 = 36000 =

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-04G					
Thallium	µg/L		0.6U U		
Vanadium	µg/L		6.63J J		
Zinc	µg/L		8.46J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-04G					
Methylene chloride	µg/L		2.44J UJ		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		0.704U U		
Uranium	µg/L		0.0494U U		
Uranium-233/234	pCi/L		0.168JU U		
Uranium-235/236	pCi/L		0.044U U		
Uranium-238	pCi/L		0.00977U U		
Other Parameters					
Alkalinity	mg/L		88 =		46 = 47 =
Ammonia	mg/L		0.017U U		0.017*U U 0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		45.5 =		75.2 = 75.4 =
Dissolved Solids	mg/L		402 =		
Nitrate/Nitrite	mg/L		0.319 =		0.17U U 0.17U U
Sulfate	mg/L		148 =		243 = 245 =
Field Measurements					
Conductivity	µS/cm		596		837
Depth to Water	ft		13.61		14.7
Dissolved Oxygen	mg/L		4.68		0.74
pH	Std Unit		6.14		5.37
Temperature	deg C		13.2		14
Turbidity	NTU		43.1		12.2
X749A-07G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		58.6 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		98400 =		101000 =
Chromium	µg/L		3.77J J		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-07G					
Cobalt	µg/L		0.3U U		
Copper	µg/L		0.604J J		
Iron	µg/L		114 =		30U U
Lead	µg/L		0.5U U		
Magnesium	µg/L		32100 =		
Manganese	µg/L		4.53J J		
Nickel	µg/L		6.86 =		
Potassium	µg/L		288 =		741 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		18100 =		31400 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.98J J		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-07G					
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		3.03J UJ		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		-0.353U U		
Uranium	µg/L		0.393JU UJ		
Uranium-233/234	pCi/L		0.112U U		
Uranium-235/236	pCi/L		0.0243U U		
Uranium-238	pCi/L		0.128JU UJ		
Other Parameters					
Alkalinity	mg/L		367 =		289 =
Ammonia	mg/L		0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		14.3 =		64.3 =
Dissolved Solids	mg/L		475 =		
Nitrate/Nitrite	mg/L		0.085U U		0.17U U
Sulfate	mg/L		56.9 =		54 =
Field Measurements					
Conductivity	µS/cm		844		836
Depth to Water	ft		12.38		14.16
Dissolved Oxygen	mg/L		2.96		0.22
pH	Std Unit		7.13		6.67

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-07G					
Temperature	deg C		15.1		15.1
Turbidity	NTU		7.91		1.13
X749A-12G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2.11J J		
Barium	µg/L		49.5 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		29600 =		30200 =
Chromium	µg/L		20.8 =		
Cobalt	µg/L		0.5J J		
Copper	µg/L		0.901J J		
Iron	µg/L		1530 =		2740 =
Lead	µg/L		0.5U U		
Magnesium	µg/L		22500 =		
Manganese	µg/L		69.2 =		
Nickel	µg/L		29.1 =		
Potassium	µg/L		2090 =		2350 =
Selenium	µg/L		5.72 =		
Silver	µg/L		0.3U U		
Sodium	µg/L		53100 =		55800 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		6.12J J		
Zinc	µg/L		8.76J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-12G					
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		1.28 =		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		2.1J UJ		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		4.13 =		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		2.64U U		
Uranium	µg/L		7.77 J		
Uranium-233/234	pCi/L		3.14 =		
Uranium-235/236	pCi/L		0.141JU UJ		
Uranium-238	pCi/L		2.59 =		
Other Parameters					
Alkalinity	mg/L		64.5 =		66.5 UJ

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-12G					
Ammonia	mg/L		0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		103 =		108 =
Dissolved Solids	mg/L		385 =		
Nitrate/Nitrite	mg/L		0.274 =		0.184J J
Sulfate	mg/L		73.8 =		69.5 =
Field Measurements					
Conductivity	µS/cm		682		668
Depth to Water	ft		16.1		17.88
Dissolved Oxygen	mg/L		1.71		0.64
pH	Std Unit		6.11		5.6
Temperature	deg C		16.6		14.2
Turbidity	NTU		41.4		49.7
X749A-14G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		50.1 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		16300 =		20500 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.353J J		
Copper	µg/L		0.676J UJ		
Iron	µg/L		563 =		98.7J J
Lead	µg/L		0.5U UJ		
Magnesium	µg/L		14100 =		
Manganese	µg/L		21.8 =		
Nickel	µg/L		2J J		
Potassium	µg/L		1990 =		2090 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		30800 =		27900 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		6.17J UJ		
Zinc	µg/L		8.47J UJ		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-14G					
1,1-Dichloroethane	µg/L		0.333U *U*		
1,1-Dichloroethene	µg/L		0.333U *U*		
1,2,3-Trichloropropane	µg/L		0.333U *U*		
1,2-Dibromo-3-chloropropane	µg/L		0.333U *U*		
1,2-Dibromoethane	µg/L		0.333U *U*		
1,2-Dichlorobenzene	µg/L		0.333U *U*		
1,2-Dichloroethane	µg/L		0.333U *U*		
1,2-Dichloropropane	µg/L		0.333U *U*		
1,2-Dimethylbenzene	µg/L		0.333U *U*		
1,4-Dichlorobenzene	µg/L		0.333U *U*		
2-Butanone	µg/L		1.67U *U*		
2-Hexanone	µg/L		1.67U *U*		
4-Methyl-2-pentanone	µg/L		1.67U *U*		
Acetone	µg/L		1.74U *U*		
Acrylonitrile	µg/L		1.67U *U*		
Benzene	µg/L		0.333U *U*		
Bromochloromethane	µg/L		0.333U *U*		
Bromodichloromethane	µg/L		0.333U *U*		
Bromoform	µg/L		0.333U *U*		
Bromomethane	µg/L		0.337U *U*		
Carbon disulfide	µg/L		1.67U *U*		
Carbon tetrachloride	µg/L		0.333U *U*		
Chlorobenzene	µg/L		0.333U *U*		
Chloroethane	µg/L		0.333U *U*		
Chloroform	µg/L		0.333U *U*		
Chloromethane	µg/L		0.333QU *UJ*		
cis-1,2-Dichloroethene	µg/L		0.333U *U*		
cis-1,3-Dichloropropene	µg/L		0.333U *U*		
Dibromochloromethane	µg/L		0.333U *U*		
Dibromomethane	µg/L		0.333U *U*		
Ethylbenzene	µg/L		0.333U *U*		
Iodomethane	µg/L		1.67U *U*		
m,p-Xylenes	µg/L		0.5U *U*		
Methylene chloride	µg/L		0.5U *U*		
Styrene	µg/L		0.333U *U*		
Tetrachloroethene	µg/L		0.333U *U*		
Toluene	µg/L		0.333U *U*		
trans-1,2-Dichloroethene	µg/L		0.333U *U*		
trans-1,3-Dichloropropene	µg/L		0.333U *U*		
trans-1,4-Dichloro-2-butene	µg/L		1.67U *U*		
Trichloroethene	µg/L		0.333U *U*		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-14G					
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		2.68U U		
Uranium	µg/L		0.0235U U		
Uranium-233/234	pCi/L		0.0333U U		
Uranium-235/236	pCi/L		0.000688U U		
Uranium-238	pCi/L		0.00779U U		
Other Parameters					
Alkalinity	mg/L		71 UJ		56 =
Ammonia	mg/L		0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		10 =		12.6 =
Dissolved Solids	mg/L		210 =		
Nitrate/Nitrite	mg/L		0.085U U		0.17U U
Sulfate	mg/L		78.7 =		77.8 =
Field Measurements					
Conductivity	µS/cm		354.7		356.4
Depth to Water	ft		15.79		18.29
Dissolved Oxygen	mg/L		3.73		2.31
pH	Std Unit		6.13		5.81
Temperature	deg C		19.3		11.7
Turbidity	NTU		7.37		2.48
X749A-16G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		16.6 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		8120 =		8590 =
Chromium	µg/L		16.3 =		
Cobalt	µg/L		0.3U U		
Copper	µg/L		0.808J UJ		
Iron	µg/L		413 =		76.2J J
Lead	µg/L		0.5U UJ		
Magnesium	µg/L		7760 =		
Manganese	µg/L		3.82J J		
Nickel	µg/L		8.29 =		
Potassium	µg/L		1440 =		1390 =

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-16G					
Selenium	µg/L		6.64 =		
Silver	µg/L		0.3U U		
Sodium	µg/L		26500 =		25200 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		6.17J UJ		
Zinc	µg/L		4.8J UJ		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333QU UJ		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-16G					
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		7.72 =		
Uranium	µg/L		0.128U U		
Uranium-233/234	pCi/L		0.0306U U		
Uranium-235/236	pCi/L		0.0149U U		
Uranium-238	pCi/L		0.0409U U		
Other Parameters					
Alkalinity	mg/L		44 UJ		42 UJ
Ammonia	mg/L		0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		27.8 =		30 =
Dissolved Solids	mg/L		149 =		
Nitrate/Nitrite	mg/L		0.323 =		0.307 =
Sulfate	mg/L		25.6 =		22.6 =
Field Measurements					
Conductivity	µS/cm		247		253.5
Depth to Water	ft		13		15.18
Dissolved Oxygen	mg/L		0.98		0.6
pH	Std Unit		5.73		5.56
Temperature	deg C		14.6		14.3
Turbidity	NTU		10.5		3.35
X749A-17G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		68 =		
Beryllium	µg/L		0.2U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-17G					
Cadmium	µg/L		0.577J J		
Calcium	µg/L		33300 =		32900 =
Chromium	µg/L		523 =		
Cobalt	µg/L		3.04 =		
Copper	µg/L		12.2 =		
Iron	µg/L		2890 =		6060 =
Lead	µg/L		0.5U U		
Magnesium	µg/L		20700 =		
Manganese	µg/L		101 =		
Nickel	µg/L		153 =		
Potassium	µg/L		2030 =		2260 =
Selenium	µg/L		7.43 =		
Silver	µg/L		0.3U U		
Sodium	µg/L		61000 =		65500 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		4.39J J		
Zinc	µg/L		8.04J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		6.03 =		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-17G					
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		2.2J UJ		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		0.544U U		
Uranium	µg/L		0.166U U		
Uranium-233/234	pCi/L		-0.00421U U		
Uranium-235/236	pCi/L		0.0141U U		
Uranium-238	pCi/L		0.0535U U		
Other Parameters					
Alkalinity	mg/L		63 =		45 UJ
Ammonia	mg/L		0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		119 =		126 =
Dissolved Solids	mg/L		415 =		
Nitrate/Nitrite	mg/L		0.111J J		0.17U U
Sulfate	mg/L		87.2 =		77.6 =
Field Measurements					
Conductivity	µS/cm		750		725

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-17G					
Depth to Water	ft		11.42		13.2
Dissolved Oxygen	mg/L		3.8		0.68
pH	Std Unit		5.94		5.63
Temperature	deg C		13.8		15
Turbidity	NTU		41.6		18.2
X749A-18G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2.19J J		
Barium	µg/L		25.6 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.308J J		
Calcium	µg/L		16500 =		18300 =
Chromium	µg/L		3.91J J		
Cobalt	µg/L		0.3U U		
Copper	µg/L		0.441J UJ		
Iron	µg/L		366 =		63.4J J
Lead	µg/L		0.5U UJ		
Magnesium	µg/L		13600 =		
Manganese	µg/L		8.73 =		
Nickel	µg/L		6.76 =		
Potassium	µg/L		1650 =		1740 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.367J J		
Sodium	µg/L		39500 =		39300 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		6.32J UJ		
Zinc	µg/L		7.86J UJ		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-18G					
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333QU UJ		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		-0.135U U		
Uranium	µg/L		0.00422U U		
Uranium-233/234	pCi/L		0.0981U U		
Uranium-235/236	pCi/L		0.000798U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-18G					
Uranium-238	pCi/L		0.00129U U		
Other Parameters					
Alkalinity	mg/L		61 UJ		64 UJ
Ammonia	mg/L		0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		34.2 =		30 =
Dissolved Solids	mg/L		251 =		
Nitrate/Nitrite	mg/L		0.085U U		0.17U U
Sulfate	mg/L		76.4 =		68.9 =
Field Measurements					
Conductivity	µS/cm		408.9		393.7
Depth to Water	ft		12.01		13.78
Dissolved Oxygen	mg/L		1.63		0.96
pH	Std Unit		5.76		5.65
Temperature	deg C		15.8		15.7
Turbidity	NTU		14.9		5.25
X749A-19G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		18.4 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.306J J		
Calcium	µg/L		24700 =		29000 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.654J J		
Copper	µg/L		0.305J UJ		
Iron	µg/L		30U U		664 =
Lead	µg/L		0.5U UJ		
Magnesium	µg/L		23800 =		
Manganese	µg/L		20.1 =		
Nickel	µg/L		4.17 =		
Potassium	µg/L		1960 =		2220 =
Selenium	µg/L		2.14J J		
Silver	µg/L		0.3U U		
Sodium	µg/L		51700 =		51800 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		5.24J UJ		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-19G					
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333QU UJ		
cis-1,2-Dichloroethene	µg/L		2.05 =		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		

X-749A Classified Materials Disposal Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X749A-19G					
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		1.77 =		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		1.9U U		
Uranium	µg/L		0.0863U U		
Uranium-233/234	pCi/L		0.0611U U		
Uranium-235/236	pCi/L		-0.0151U U		
Uranium-238	pCi/L		0.029U U		
Other Parameters					
Alkalinity	mg/L		68 UJ		61.5 UJ
Ammonia	mg/L		0.017U U		0.017*U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		47.4 =		52.3 =
Dissolved Solids	mg/L		364 =		
Nitrate/Nitrite	mg/L		0.085U U		0.17U U
Sulfate	mg/L		131 =		149 =
Field Measurements					
Conductivity	µS/cm		590		636
Depth to Water	ft		13.76		15.9
Dissolved Oxygen	mg/L		1.72		0.58
pH	Std Unit		5.88		5.7
Temperature	deg C		13.8		16.4
Turbidity	NTU		16.6		20.1

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APPENDIX B

QUADRANT II SAMPLING RESULTS

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ANALYTICAL DATA TABLES
QUADRANT II GROUNDWATER INVESTIGATIVE (7-UNIT) AREA

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X333-04G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.25U			
1,1,2,2-Tetrachloroethane	µg/L	0.25U			
1,1,2-Trichloroethane	µg/L	0.25U			
1,1-Dichloroethane	µg/L	0.47J			
1,1-Dichloroethene	µg/L	0.34J			
1,2-Dichlorobenzene	µg/L	0.25U			
1,2-Dichloroethane	µg/L	0.25U			
1,2-Dimethylbenzene	µg/L	0.25U			
1,4-Dichlorobenzene	µg/L	0.25U			
2-Butanone	µg/L	4U			
4-Methyl-2-pentanone	µg/L	1.5U			
Acetone	µg/L	5U			
Benzene	µg/L	0.25U			
Bromodichloromethane	µg/L	0.25U			
Bromoform	µg/L	0.5U			
Bromomethane	µg/L	2.5U			
Carbon disulfide	µg/L	0.5U			
Carbon tetrachloride	µg/L	0.25U			
Chlorobenzene	µg/L	0.25U			
Chloroethane	µg/L	0.5U			
Chloroform	µg/L	1.82			
Chloromethane	µg/L	0.5U			
cis-1,2-Dichloroethene	µg/L	22.4			
Dibromochloromethane	µg/L	0.25U			
Ethylbenzene	µg/L	0.25U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	1U			
Tetrachloroethene	µg/L	0.25U			
Toluene	µg/L	0.25U			
trans-1,2-Dichloroethene	µg/L	0.334J			
Trichloroethene	µg/L	28.2			
Trichlorofluoromethane	µg/L	0.5U			
Vinyl chloride	µg/L	0.25U			
Field Measurements					
Conductivity	µS/cm	457.9			
Depth to Water	ft	12.85			
Dissolved Oxygen	mg/L	0.44			
pH	Std Unit	4.38			
Temperature	deg C	14.6			
Turbidity	NTU	22.4			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X333-06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.25U			
1,1,2,2-Tetrachloroethane	µg/L	0.25U			
1,1,2-Trichloroethane	µg/L	0.25U			
1,1-Dichloroethane	µg/L	0.25U			
1,1-Dichloroethene	µg/L	0.25U			
1,2-Dichlorobenzene	µg/L	0.25U			
1,2-Dichloroethane	µg/L	0.25U			
1,2-Dimethylbenzene	µg/L	0.25U			
1,4-Dichlorobenzene	µg/L	0.25U			
2-Butanone	µg/L	4U			
4-Methyl-2-pentanone	µg/L	1.5U			
Acetone	µg/L	5U			
Benzene	µg/L	0.25U			
Bromodichloromethane	µg/L	0.25U			
Bromoform	µg/L	0.5U			
Bromomethane	µg/L	2.5U			
Carbon disulfide	µg/L	0.5U			
Carbon tetrachloride	µg/L	0.25U			
Chlorobenzene	µg/L	0.25U			
Chloroethane	µg/L	0.5U			
Chloroform	µg/L	11.4			
Chloromethane	µg/L	0.5U			
cis-1,2-Dichloroethene	µg/L	0.753J			
Dibromochloromethane	µg/L	0.25U			
Ethylbenzene	µg/L	0.25U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	1U			
Tetrachloroethene	µg/L	0.25U			
Toluene	µg/L	0.25U			
trans-1,2-Dichloroethene	µg/L	0.25U			
Trichloroethene	µg/L	0.412J			
Trichlorofluoromethane	µg/L	0.5U			
Vinyl chloride	µg/L	0.25U			
Field Measurements					
Conductivity	µS/cm	459.4			
Depth to Water	ft	11.71			
Dissolved Oxygen	mg/L	2.26			
pH	Std Unit	6.1			
Temperature	deg C	14.4			
Turbidity	NTU	5.94			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X700-02G					
Metals					
Beryllium	µg/L	0.2U U	0.2U U		
Cadmium	µg/L	0.374J J	0.391J J		
Chromium	µg/L	3.61J J	5.43J J		
Chromium, hexavalent	mg/L	0.0105U	0.0105U		
Cobalt	µg/L	0.3U U	0.3U U		
Manganese	µg/L	440 =	449 =		
Nickel	µg/L	7.21 J	11.1 J		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	2.13	2.18		
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U		
1,1,2-Trichloroethane	µg/L	1.59	1.54		
1,1-Dichloroethane	µg/L	9.15	8.96		
1,1-Dichloroethene	µg/L	125	136		
1,2-Dichlorobenzene	µg/L	0.333U	0.333U		
1,2-Dichloroethane	µg/L	1.58	1.62		
1,2-Dimethylbenzene	µg/L	0.333U	0.333U		
1,4-Dichlorobenzene	µg/L	0.333U	0.333U		
2-Butanone	µg/L	1.67U	1.67U		
4-Methyl-2-pentanone	µg/L	1.67U	1.67U		
Acetone	µg/L	1.74U	46.6		
Benzene	µg/L	0.333U	0.333U		
Bromodichloromethane	µg/L	0.333U	0.333U		
Bromoform	µg/L	0.333U	0.333U		
Bromomethane	µg/L	0.337U	0.337U		
Carbon disulfide	µg/L	1.67U	1.67U		
Carbon tetrachloride	µg/L	0.333U	0.333U		
Chlorobenzene	µg/L	0.333U	0.333U		
Chloroethane	µg/L	2.81	2.81		
Chloroform	µg/L	0.7J	0.72J		
Chloromethane	µg/L	0.333U	0.333U		
cis-1,2-Dichloroethene	µg/L	1080	1250		
Dibromochloromethane	µg/L	0.333U	0.333U		
Ethylbenzene	µg/L	0.333U	0.333U		
m,p-Xylenes	µg/L	0.5U	0.5U		
Methylene chloride	µg/L	2.38J	2.5J		
Tetrachloroethene	µg/L	0.87J	0.8J		
Toluene	µg/L	0.333U	0.333U		
trans-1,2-Dichloroethene	µg/L	5.89	5.78		
Trichloroethene	µg/L	2900	3360		
Trichlorofluoromethane	µg/L	1.7	1.72		

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X700-02G					
Vinyl chloride	µg/L	29.3	29.2		
Radionuclides					
Technetium-99	pCi/L	16.9 =	13.1 =		
Uranium	µg/L	2.17 =	1.88 =		
Uranium-233/234	pCi/L	0.589 =	0.859 =		
Uranium-235/236	pCi/L	0.0294U *U*	0.028U *U*		
Uranium-238	pCi/L	0.726 =	0.629 =		
Field Measurements					
Conductivity	µS/cm	2214			
Depth to Water	ft	17.9			
Dissolved Oxygen	mg/L	0.32			
pH	Std Unit	6.14			
Temperature	deg C	18.7			
Turbidity	NTU	1.56			
X700-03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U	0.333U
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U	0.333U
1,1,2-Trichloroethane	µg/L	0.333U		0.333U	0.333U
1,1-Dichloroethane	µg/L	0.333U		0.333U	0.333U
1,1-Dichloroethene	µg/L	0.333U		0.333U	0.333U
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	0.333U
1,2-Dichloroethane	µg/L	0.333U		0.333U	0.333U
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	0.333U
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	0.333U
2-Butanone	µg/L	1.67U		1.67U	1.67U
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	1.67U
Acetone	µg/L	1.74U		1.74U	1.74U
Benzene	µg/L	0.333U		0.333U	0.333U
Bromodichloromethane	µg/L	0.333U		0.333U	0.333U
Bromoform	µg/L	0.333U		0.333U	0.333U
Bromomethane	µg/L	0.337U		0.337QU	0.337QU
Carbon disulfide	µg/L	1.67U		1.67U	1.67U
Carbon tetrachloride	µg/L	0.333U		0.333U	0.333U
Chlorobenzene	µg/L	0.333U		0.333U	0.333U
Chloroethane	µg/L	0.333U		0.333U	0.333U
Chloroform	µg/L	0.333U		0.333U	0.333U
Chloromethane	µg/L	0.333U		0.333QU	0.333QU
cis-1,2-Dichloroethene	µg/L	0.333U		0.333U	0.333U
Dibromochloromethane	µg/L	0.333U		0.333U	0.333U
Ethylbenzene	µg/L	0.333U		0.333U	0.333U

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter		Fourth Quarter
X700-03G						
m,p-Xylenes	µg/L	0.5U		0.5U	0.5U	
Methylene chloride	µg/L	0.5U		0.5U	0.5U	
Tetrachloroethene	µg/L	0.333U		0.333U	0.333U	
Toluene	µg/L	0.333U		0.333U	0.333U	
trans-1,2-Dichloroethene	µg/L	0.333U		0.333U	0.333U	
Trichloroethene	µg/L	0.333U		0.333U	0.333U	
Trichlorofluoromethane	µg/L	0.333U		0.333U	0.333U	
Vinyl chloride	µg/L	0.333U		0.333QU	0.333QU	
Field Measurements						
Conductivity	µS/cm	3382		3389		
Depth to Water	ft	17.45		17.14		
Dissolved Oxygen	mg/L	6.3		0.52		
pH	Std Unit	5.68		5.69		
Temperature	deg C	15.3		18.7		
Turbidity	NTU	451		215		
X700-04G						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.333U				
1,1,2,2-Tetrachloroethane	µg/L	0.333U				
1,1,2-Trichloroethane	µg/L	0.333U				
1,1-Dichloroethane	µg/L	0.333U				
1,1-Dichloroethene	µg/L	13.3				
1,2-Dichlorobenzene	µg/L	0.333U				
1,2-Dichloroethane	µg/L	0.333U				
1,2-Dimethylbenzene	µg/L	0.333U				
1,4-Dichlorobenzene	µg/L	0.333U				
2-Butanone	µg/L	1.67U				
4-Methyl-2-pentanone	µg/L	1.67U				
Acetone	µg/L	1.74U				
Benzene	µg/L	0.333U				
Bromodichloromethane	µg/L	0.333U				
Bromoform	µg/L	0.333U				
Bromomethane	µg/L	0.337U				
Carbon disulfide	µg/L	1.67U				
Carbon tetrachloride	µg/L	0.333U				
Chlorobenzene	µg/L	0.333U				
Chloroethane	µg/L	4.86				
Chloroform	µg/L	0.333U				
Chloromethane	µg/L	0.333U				
cis-1,2-Dichloroethene	µg/L	1590				
Dibromochloromethane	µg/L	0.333U				

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X700-04G					
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	3.77			
Trichloroethene	µg/L	217			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	801			
Radionuclides					
Technetium-99	pCi/L	8.88 -			
Uranium	µg/L	5.68 J			
Uranium-233/234	pCi/L	2.95 -			
Uranium-235/236	pCi/L	0.159JU UJ			
Uranium-238	pCi/L	1.88 -			
Field Measurements					
Conductivity	µS/cm	1008			
Depth to Water	ft	16.88			
Dissolved Oxygen	mg/L	1.17			
pH	Std Unit	7.16			
Temperature	deg C	16.9			
Turbidity	NTU	12.4			
X700-05G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.92			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	62.6			
1,1-Dichloroethane	µg/L	1.98			
1,1-Dichloroethene	µg/L	69.8			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	5.03			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	337U			
Carbon disulfide	µg/L	1.67U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X700-05G					
Carbon tetrachloride	µg/L	0.42J			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	19.2			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	28700			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.79J			
Tetrachloroethene	µg/L	7.71			
Toluene	µg/L	0.5J			
trans-1,2-Dichloroethene	µg/L	51.9			
Trichloroethene	µg/L	65800			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	950J			
Radionuclides					
Technetium-99	pCi/L	-2.01U U			
Uranium	µg/L	1.78 =			
Uranium-233/234	pCi/L	1.27 =			
Uranium-235/236	pCi/L	0U U			
Uranium-238	pCi/L	0.597 =			
Field Measurements					
Conductivity	µS/cm	1199			
Depth to Water	ft	16.14			
Dissolved Oxygen	mg/L	2.42			
pH	Std Unit	7.3			
Temperature	deg C	16.7			
Turbidity	NTU	14.6			
X700-06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	21.3			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	1670JU			
1,1-Dichloroethane	µg/L	2.7			
1,1-Dichloroethene	µg/L	36			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	22.8			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X700-06G					
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	121			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	1690JU			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	60.4			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	1670JU			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	1670JU			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	30.5			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	15.1			
Trichloroethene	µg/L	429000J			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	1670JU			
Radionuclides					
Technetium-99	pCi/L	8.03 =			
Uranium	µg/L	3.39 J			
Uranium-233/234	pCi/L	2.8 =			
Uranium-235/236	pCi/L	0.118JU UJ			
Uranium-238	pCi/L	1.12 =			
Field Measurements					
Conductivity	µS/cm	635			
Depth to Water	ft	15.31			
Dissolved Oxygen	mg/L	3.43			
pH	Std Unit	7.65			
Temperature	deg C	17.2			
Turbidity	NTU	117			
X701-26G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U U	

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-26G					
1,1-Dichloroethane	µg/L	0.333U		0.333U U	
1,1-Dichloroethene	µg/L	0.333U		0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		1.74U U	
Benzene	µg/L	0.333U		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337U		0.337U U	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	0.333U		0.333U U	
Chloromethane	µg/L	0.333U		0.333U U	
cis-1,2-Dichloroethene	µg/L	0.333U		0.333U U	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	0.5U		0.5U U	
Tetrachloroethene	µg/L	1.06		1 =	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	0.333U		0.333U U	
Trichloroethene	µg/L	1.27		0.44J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	0.333U		0.333U U	
Radionuclides					
Technetium-99	pCi/L	22.5 =			
Uranium	µg/L	5.35 J			
Uranium-233/234	pCi/L	3.13 =			
Uranium-235/236	pCi/L	0.285 UJ			
Uranium-238	pCi/L	1.76 =			
Field Measurements					
Conductivity	µS/cm	1183		1374	
Depth to Water	ft	13.96		14.41	
Dissolved Oxygen	mg/L	2.09		3.65	
pH	Std Unit	7.05		7.05	

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-26G					
Temperature	deg C	16.3		17.4	
Turbidity	NTU	60.3		39.4	
X701-27G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.479J		0.37J J	
1,1,2,2-Tetrachloroethane	µg/L	0.25U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.25U		0.333U U	
1,1-Dichloroethane	µg/L	0.25U		0.333U U	
1,1-Dichloroethene	µg/L	0.25U		0.38J J	
1,2-Dichlorobenzene	µg/L	0.25U		0.333U U	
1,2-Dichloroethane	µg/L	0.25U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.25U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.25U		0.333U U	
2-Butanone	µg/L	4U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.5U		1.67U U	
Acetone	µg/L	5U		1.74U U	
Benzene	µg/L	0.25U		0.333U U	
Bromodichloromethane	µg/L	0.25U		0.333U U	
Bromoform	µg/L	0.5U		0.333U U	
Bromomethane	µg/L	2.5U		0.337U U	
Carbon disulfide	µg/L	0.5U		1.67U U	
Carbon tetrachloride	µg/L	0.25U		0.333U U	
Chlorobenzene	µg/L	0.25U		0.333U U	
Chloroethane	µg/L	0.5U		0.333U U	
Chloroform	µg/L	0.25U		0.333U U	
Chloromethane	µg/L	0.5U		0.333U U	
cis-1,2-Dichloroethene	µg/L	1.61		1.35 =	
Dibromochloromethane	µg/L	0.25U		0.333U U	
Ethylbenzene	µg/L	0.25U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	1U		0.5U U	
Tetrachloroethene	µg/L	0.25U		0.333U U	
Toluene	µg/L	0.25U		0.333U U	
trans-1,2-Dichloroethene	µg/L	0.25U		0.333U U	
Trichloroethene	µg/L	14.2		13.6 =	
Trichlorofluoromethane	µg/L	0.5U		0.333U U	
Vinyl chloride	µg/L	0.25U		0.333U U	
Field Measurements					
Conductivity	µS/cm	1362		1415	
Depth to Water	ft	18.35		17.74	
Dissolved Oxygen	mg/L	0.1		0.17	

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-27G					
pH	Std Unit	6.49		6.54	
Temperature	deg C	14.5		15.9	
Turbidity	NTU	9.34		2.95	
X701-28GA					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.25U			
1,1,2,2-Tetrachloroethane	µg/L	0.25U			
1,1,2-Trichloroethane	µg/L	0.25U			
1,1-Dichloroethane	µg/L	0.25U			
1,1-Dichloroethene	µg/L	0.25U			
1,2-Dichlorobenzene	µg/L	0.25U			
1,2-Dichloroethane	µg/L	0.25U			
1,2-Dimethylbenzene	µg/L	0.25U			
1,4-Dichlorobenzene	µg/L	0.25U			
2-Butanone	µg/L	4U			
4-Methyl-2-pentanone	µg/L	1.5U			
Acetone	µg/L	5U			
Benzene	µg/L	0.25U			
Bromodichloromethane	µg/L	0.25U			
Bromoform	µg/L	0.5U			
Bromomethane	µg/L	2.5U			
Carbon disulfide	µg/L	0.5U			
Carbon tetrachloride	µg/L	0.25U			
Chlorobenzene	µg/L	0.25U			
Chloroethane	µg/L	0.5U			
Chloroform	µg/L	0.25U			
Chloromethane	µg/L	0.5U			
cis-1,2-Dichloroethene	µg/L	0.25U			
Dibromochloromethane	µg/L	0.25U			
Ethylbenzene	µg/L	0.25U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	1U			
Tetrachloroethene	µg/L	0.25U			
Toluene	µg/L	0.25U			
trans-1,2-Dichloroethene	µg/L	0.25U			
Trichloroethene	µg/L	0.25U			
Trichlorofluoromethane	µg/L	0.5U			
Vinyl chloride	µg/L	0.25U			
Field Measurements					
Conductivity	µS/cm	962			
Depth to Water	ft	16.43			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-28GA					
Dissolved Oxygen	mg/L	5.68			
pH	Std Unit	6.79			
Temperature	deg C	11.8			
Turbidity	NTU	91.1			
X701-45G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.25U			
1,1,2,2-Tetrachloroethane	µg/L	0.25U			
1,1,2-Trichloroethane	µg/L	0.25U			
1,1-Dichloroethane	µg/L	0.25U			
1,1-Dichloroethene	µg/L	0.25U			
1,2-Dichlorobenzene	µg/L	0.25U			
1,2-Dichloroethane	µg/L	0.25U			
1,2-Dimethylbenzene	µg/L	0.25U			
1,4-Dichlorobenzene	µg/L	0.25U			
2-Butanone	µg/L	4U			
4-Methyl-2-pentanone	µg/L	1.5U			
Acetone	µg/L	5U			
Benzene	µg/L	0.25U			
Bromodichloromethane	µg/L	0.25U			
Bromoform	µg/L	0.5U			
Bromomethane	µg/L	2.5U			
Carbon disulfide	µg/L	0.5U			
Carbon tetrachloride	µg/L	0.25U			
Chlorobenzene	µg/L	0.25U			
Chloroethane	µg/L	0.5U			
Chloroform	µg/L	0.25U			
Chloromethane	µg/L	0.5U			
cis-1,2-Dichloroethene	µg/L	2.07			
Dibromochloromethane	µg/L	0.25U			
Ethylbenzene	µg/L	0.25U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	1U			
Tetrachloroethene	µg/L	0.25U			
Toluene	µg/L	0.25U			
trans-1,2-Dichloroethene	µg/L	0.25U			
Trichloroethene	µg/L	39.4			
Trichlorofluoromethane	µg/L	0.5U			
Vinyl chloride	µg/L	0.25U			
Field Measurements					
Conductivity	µS/cm	2055			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-45G					
Depth to Water	ft	14.18			
Dissolved Oxygen	mg/L	0.25			
pH	Std Unit	5.92			
Temperature	deg C	16.3			
Turbidity	NTU	3.52			
X701-68G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.65J			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	2.05			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.54J			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	285			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	2.62J			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	2.96			
Trichloroethene	µg/L	751			
Trichlorofluoromethane	µg/L	0.52J			
Vinyl chloride	µg/L	0.333U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-68G					
Radionuclides					
Technetium-99	pCi/L	11.4 =			
Uranium	µg/L	4.98 J			
Uranium-233/234	pCi/L	1.9 =			
Uranium-235/236	pCi/L	0.0607JU UJ			
Uranium-238	pCi/L	1.66 =			
Field Measurements					
Conductivity	µS/cm	1866			
Depth to Water	ft	15.85			
Dissolved Oxygen	mg/L	1.81			
pH	Std Unit	6.42			
Temperature	deg C	14.3			
Turbidity	NTU	9.27			
X701-69G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.35J			
1,1-Dichloroethene	µg/L	0.82J			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	150			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-69G					
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.46J			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	3.7			
Trichloroethene	µg/L	614			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	1.4			
Radionuclides					
Technetium-99	pCi/L	1.02U *U*			
Uranium	µg/L	7.6 *J*			
Uranium-233/234	pCi/L	3.13 -			
Uranium-235/236	pCi/L	0.247JU *UJ*			
Uranium-238	pCi/L	2.52 -			
Field Measurements					
Conductivity	µS/cm	1399			
Depth to Water	ft	14.78			
Dissolved Oxygen	mg/L	0			
pH	Std Unit	6.54			
Temperature	deg C	15.8			
Turbidity	NTU	4.71			
X701-70G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	1.4			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	10.9			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-70G					
Chloroethane	µg/L	0.56J			
Chloroform	µg/L	0.42J			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	2070			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	2.66J			
Tetrachloroethene	µg/L	1.02			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	3.11			
Trichloroethene	µg/L	4080			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	59			
Radionuclides					
Technetium-99	pCi/L	7.63 =			
Uranium	µg/L	2.7 =			
Uranium-233/234	pCi/L	1.21 =			
Uranium-235/236	pCi/L	0.0451U U			
Uranium-238	pCi/L	0.902 =			
Field Measurements					
Conductivity	µS/cm	510			
Depth to Water	ft	16.19			
Dissolved Oxygen	mg/L	0.77			
pH	Std Unit	7.02			
Temperature	deg C	15.1			
Turbidity	NTU	2.8			
X701-117GA					
Metals					
Beryllium	µg/L	0.2U U			
Cadmium	µg/L	0.3U U			
Chromium	µg/L	40.2 =			
Chromium, hexavalent	mg/L	0.0105U U			
Cobalt	µg/L	1.04 =			
Cobalt	µg/L	1.04 =			
Manganese	µg/L	152 =			
Nickel	µg/L	114 =			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.81J			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-117GA					
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	11.3			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.52J			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	2210			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.76J			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	11.2			
Trichloroethene	µg/L	3070			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.69J			
Field Measurements					
Conductivity	µS/cm	1630			
Depth to Water	ft	17.27			
Dissolved Oxygen	mg/L	24.8			
pH	Std Unit	6.72			
Temperature	deg C	15.1			
Turbidity	NTU	17.9			
X705-01GA					
Metals					
Beryllium	µg/L	0.2U *U*			
Cadmium	µg/L	0.3U *U*			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-01GA					
Chromium	µg/L	80.2 =			
Chromium, hexavalent	mg/L	0.0105U U			
Cobalt	µg/L	0.3U U			
Manganese	µg/L	3.87J J			
Nickel	µg/L	6 =			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	12			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	14.4			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Radionuclides					
Americium-241	pCi/L	-0.0286U U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-01GA					
Neptunium-237	pCi/L	0.00157U U			
Plutonium-238	pCi/L	0.0161U U			
Plutonium-239/240	pCi/L	0.00803U U			
Technetium-99	pCi/L	134 =			
Uranium	µg/L	1.26 J			
Uranium-233/234	pCi/L	0.978 =			
Uranium-235/236	pCi/L	0.132JU UJ			
Uranium-238	pCi/L	0.405 =			
Field Measurements					
Conductivity	µS/cm	704			
Depth to Water	ft	16.8			
Dissolved Oxygen	mg/L	22.4			
pH	Std Unit	6.71			
Temperature	deg C	16			
Turbidity	NTU	22.5			
X705-02G					
Metals					
Beryllium	µg/L	0.2U U			
Cadmium	µg/L	0.536J J			
Chromium	µg/L	3U U			
Chromium, hexavalent	mg/L	0.0105U U			
Cobalt	µg/L	0.3U U			
Manganese	µg/L	234 =			
Nickel	µg/L	2.54 =			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-02G					
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	5.13			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Radionuclides					
Technetium-99	pCi/L	1.39U U			
Uranium	µg/L	3.28 J			
Uranium-233/234	pCi/L	0.924 =			
Uranium-235/236	pCi/L	0.0946JU UJ			
Uranium-238	pCi/L	1.09 =			
Field Measurements					
Conductivity	µS/cm	1839			
Depth to Water	ft	18.2			
Dissolved Oxygen	mg/L	7.2			
pH	Std Unit	6.58			
Temperature	deg C	16			
Turbidity	NTU	3.34			
X705-03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.67J			
1,1-Dichloroethene	µg/L	5.71			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-03G					
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	4.01			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	1.28			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.34J			
Trichloroethene	µg/L	34.9			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	1664			
Depth to Water	ft	11.5			
Dissolved Oxygen	mg/L	0.11			
pH	Std Unit	6.53			
Temperature	deg C	15.6			
Turbidity	NTU	7.89			
X705-07G					
Metals					
Beryllium	µg/L	0.2U U			
Cadmium	µg/L	0.3U U			
Chromium	µg/L	182 =			
Chromium, hexavalent	mg/L	0.0105U U			
Cobalt	µg/L	5.73 =			
Manganese	µg/L	45.7 =			
Nickel	µg/L	136 =			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	5.69			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Radionuclides					
Technetium-99	pCi/L	104 =			
Uranium	µg/L	1.16 =			
Uranium-233/234	pCi/L	0.628 =			
Uranium-235/236	pCi/L	0.0733U U			
Uranium-238	pCi/L	0.38 =			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-07G					
Field Measurements					
Conductivity	µS/cm	1338			
Depth to Water	ft	16.65			
Dissolved Oxygen	mg/L	18.9			
pH	Std Unit	6.36			
Temperature	deg C	17.8			
Turbidity	NTU	36.2			
X705-08G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.43J			
Trichlorofluoromethane	µg/L	4.53			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-08G					
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	2438			
Depth to Water	ft	14.17			
Dissolved Oxygen	mg/L	15.8			
pH	Std Unit	6.17			
Temperature	deg C	15.7			
Turbidity	NTU	92.8			
X705-10B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.333U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X705-10B					
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	480.5			
Depth to Water	ft	15.65			
Dissolved Oxygen	mg/L	2.97			
pH	Std Unit	7.42			
Temperature	deg C	13			
Turbidity	NTU	2.35			
X720-01G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	25U	25U		
1,1,2,2-Tetrachloroethane	µg/L	25U	25U		
1,1,2-Trichloroethane	µg/L	25U	25U		
1,1-Dichloroethane	µg/L	25U	25U		
1,1-Dichloroethene	µg/L	152D	167D		
1,2-Dichlorobenzene	µg/L	25U	25U		
1,2-Dichloroethane	µg/L	25U	25U		
1,2-Dimethylbenzene	µg/L	25U	25U		
1,4-Dichlorobenzene	µg/L	25U	25U		
2-Butanone	µg/L	400U	400U		
4-Methyl-2-pentanone	µg/L	150U	150U		
Acetone	µg/L	500U	500U		
Benzene	µg/L	25U	25U		
Bromodichloromethane	µg/L	25U	25U		
Bromoform	µg/L	50U	50U		
Bromomethane	µg/L	250U	250U		
Carbon disulfide	µg/L	50U	50U		
Carbon tetrachloride	µg/L	25U	25U		
Chlorobenzene	µg/L	25U	25U		
Chloroethane	µg/L	50U	50U		
Chloroform	µg/L	25.9DJ	25.1DJ		
Chloromethane	µg/L	50U	50U		
cis-1,2-Dichloroethene	µg/L	2560D	2590D		
Dibromochloromethane	µg/L	25U	25U		
Ethylbenzene	µg/L	25U	25U		
m,p-Xylenes	µg/L	50U	50U		
Methylene chloride	µg/L	100U	100U		
Tetrachloroethene	µg/L	25U	25U		
Toluene	µg/L	25U	25U		
trans-1,2-Dichloroethene	µg/L	25U	25U		

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X720-01G					
Trichloroethene	µg/L	12400DJ	12800D		
Trichlorofluoromethane	µg/L	50U	50U		
Vinyl chloride	µg/L	80.3DJ	106D		
Semivolatile Organic Compounds					
1,4-Dioxane	µg/L	1000U	1000U		
Radionuclides					
Technetium-99	pCi/L	1.39U *U*	1.27U *U*		
Uranium	µg/L	19.1 =	19.1 =		
Uranium-233/234	pCi/L	6.35 =	5.92 =		
Uranium-235/236	pCi/L	0.413 =	0.304JU *UJ*		
Uranium-238	pCi/L	6.35 =	6.37 =		
Field Measurements					
Conductivity	µS/cm	1974			
Depth to Water	ft	14.26			
Dissolved Oxygen	mg/L	0.12			
pH	Std Unit	6.48			
Temperature	deg C	16			
Turbidity	NTU	2.7			
X720-08G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5U			
1,1,2,2-Tetrachloroethane	µg/L	5U			
1,1,2-Trichloroethane	µg/L	5U			
1,1-Dichloroethane	µg/L	5U			
1,1-Dichloroethene	µg/L	19.4DJ			
1,2-Dichlorobenzene	µg/L	5U			
1,2-Dichloroethane	µg/L	5U			
1,2-Dimethylbenzene	µg/L	5U			
1,4-Dichlorobenzene	µg/L	5U			
2-Butanone	µg/L	80U			
4-Methyl-2-pentanone	µg/L	30U			
Acetone	µg/L	100U			
Benzene	µg/L	5U			
Bromodichloromethane	µg/L	5U			
Bromoform	µg/L	10U			
Bromomethane	µg/L	50U			
Carbon disulfide	µg/L	10U			
Carbon tetrachloride	µg/L	5U			
Chlorobenzene	µg/L	5U			
Chloroethane	µg/L	10U			
Chloroform	µg/L	5.17DJ			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X720-08G					
Chloromethane	µg/L	10U			
cis-1,2-Dichloroethene	µg/L	8.25DJ			
Dibromochloromethane	µg/L	5U			
Ethylbenzene	µg/L	5U			
m,p-Xylenes	µg/L	10U			
Methylene chloride	µg/L	20U			
Tetrachloroethene	µg/L	14DJ			
Toluene	µg/L	5U			
trans-1,2-Dichloroethene	µg/L	5U			
Trichloroethene	µg/L	1930D			
Trichlorofluoromethane	µg/L	10U			
Vinyl chloride	µg/L	5U			
Radionuclides					
Technetium-99	pCi/L	150 =			
Uranium	µg/L	3.38 =			
Uranium-233/234	pCi/L	1.69 =			
Uranium-235/236	pCi/L	0.0607U U			
Uranium-238	pCi/L	1.13 =			
Field Measurements					
Conductivity	µS/cm	1214			
Depth to Water	ft	15.41			
Dissolved Oxygen	mg/L	0.17			
pH	Std Unit	6.58			
Temperature	deg C	18.3			
Turbidity	NTU	5.47			
X720-09G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	4850DJ			
1,1,2,2-Tetrachloroethane	µg/L	1250U			
1,1,2-Trichloroethane	µg/L	1250U			
1,1-Dichloroethane	µg/L	1250U			
1,1-Dichloroethene	µg/L	6440D			
1,2-Dichlorobenzene	µg/L	1250U			
1,2-Dichloroethane	µg/L	1250U			
1,2-Dimethylbenzene	µg/L	1250U			
1,4-Dichlorobenzene	µg/L	1250U			
2-Butanone	µg/L	20000U			
4-Methyl-2-pentanone	µg/L	7500U			
Acetone	µg/L	25000U			
Benzene	µg/L	1250U			
Bromodichloromethane	µg/L	1250U			

Quadrant II Groundwater Investigative (7-Unit) Area – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X720-09G					
Bromoform	µg/L	2500U			
Bromomethane	µg/L	12500U			
Carbon disulfide	µg/L	2500U			
Carbon tetrachloride	µg/L	1250U			
Chlorobenzene	µg/L	1250U			
Chloroethane	µg/L	2500U			
Chloroform	µg/L	1250U			
Chloromethane	µg/L	2500U			
cis-1,2-Dichloroethene	µg/L	2160DJ			
Dibromochloromethane	µg/L	1250U			
Ethylbenzene	µg/L	1250U			
m,p-Xylenes	µg/L	2500U			
Methylene chloride	µg/L	5000U			
Tetrachloroethene	µg/L	1250U			
Toluene	µg/L	1250U			
trans-1,2-Dichloroethene	µg/L	1250U			
Trichloroethene	µg/L	345000D			
Trichlorofluoromethane	µg/L	2500U			
Vinyl chloride	µg/L	1250U			
Radionuclides					
Technetium-99	pCi/L	1.38U U			
Uranium	µg/L	6.75 =			
Uranium-233/234	pCi/L	7.21 =			
Uranium-235/236	pCi/L	0.439 =			
Uranium-238	pCi/L	2.2 =			
Field Measurements					
Conductivity	µS/cm	2196			
Depth to Water	ft	15.72			
Dissolved Oxygen	mg/L	4.95			
pH	Std Unit	7.1			
Temperature	deg C	15.9			
Turbidity	NTU	122			

ANALYTICAL DATA TABLES
X-701B FORMER HOLDING POND

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-PZ06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U	
1,1,2-Trichloroethane	µg/L	0.333JU		0.333U	
1,1-Dichloroethane	µg/L	0.333U		0.333U	
1,1-Dichloroethene	µg/L	0.333U		0.333U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.333U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.333U		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337QU		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	0.333U		0.333U	
Chloromethane	µg/L	0.333U		0.333U	
cis-1,2-Dichloroethene	µg/L	0.333JU		0.333U	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	0.5U		0.5U	
Tetrachloroethene	µg/L	0.333U		0.333U	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	0.333U		0.333U	
Trichloroethene	µg/L	0.58J		0.333U	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	0.333U		0.333U	
Radionuclides					
Technetium-99	pCi/L	-2.65U U			
Uranium	µg/L	0.127U U			
Uranium-233/234	pCi/L	0.0382U U			
Uranium-235/236	pCi/L	0.0397U U			
Uranium-238	pCi/L	0.0364U U			

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-PZ06G					
Field Measurements					
Conductivity	µS/cm	2688		2952	
Depth to Water	ft	5.66		5.64	
Dissolved Oxygen	mg/L	2.3		2.83	
pH	Std Unit	5.67		5.67	
Temperature	deg C	7.3		23.4	
Turbidity	NTU	14.8		2.05	
LBC-PZ07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U *U*	
1,1,2,2-Tetrachloroethane	µg/L			0.333U *U*	
1,1,2-Trichloroethane	µg/L			0.333U *U*	
1,1-Dichloroethane	µg/L			0.333U *U*	
1,1-Dichloroethene	µg/L			0.333U *U*	
1,2-Dichlorobenzene	µg/L			0.333U *U*	
1,2-Dichloroethane	µg/L			0.333U *U*	
1,2-Dimethylbenzene	µg/L			0.333U *U*	
1,4-Dichlorobenzene	µg/L			0.333U *U*	
2-Butanone	µg/L			1.67U *U*	
4-Methyl-2-pentanone	µg/L			1.67U *U*	
Acetone	µg/L			1.74U *U*	
Benzene	µg/L			0.333U *U*	
Bromodichloromethane	µg/L			0.333U *U*	
Bromoform	µg/L			0.333U *U*	
Bromomethane	µg/L			0.337U *U*	
Carbon disulfide	µg/L			1.67U *U*	
Carbon tetrachloride	µg/L			0.333U *U*	
Chlorobenzene	µg/L			0.333U *U*	
Chloroethane	µg/L			0.333U *U*	
Chloroform	µg/L			0.333U *U*	
Chloromethane	µg/L			0.333U *U*	
cis-1,2-Dichloroethene	µg/L			0.333U *U*	
Dibromochloromethane	µg/L			0.333U *U*	
Ethylbenzene	µg/L			0.333U *U*	
m,p-Xylenes	µg/L			0.5U *U*	
Methylene chloride	µg/L			5.19 *UJ*	
Tetrachloroethene	µg/L			0.333U *U*	
Toluene	µg/L			0.333U *U*	
trans-1,2-Dichloroethene	µg/L			0.333U *U*	
Trichloroethene	µg/L			0.61J *J*	
Trichlorofluoromethane	µg/L			0.333U *U*	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-PZ07G					
Vinyl chloride	µg/L			0.333U U	
Field Measurements					
Conductivity	µS/cm			512	
Depth to Water	ft			7.71	
Dissolved Oxygen	mg/L			3.33	
pH	Std Unit			4.71	
Temperature	deg C			18.7	
Turbidity	NTU			1000	
X230J7-01GA					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	2.5U U		5U	
1,1,2,2-Tetrachloroethane	µg/L	5.1DJ J		8.3DJ	
1,1,2-Trichloroethane	µg/L	2.5U U		5U	
1,1-Dichloroethane	µg/L	2.5U U		5U	
1,1-Dichloroethene	µg/L	2.5U U		5U	
1,2-Dichlorobenzene	µg/L	2.5U U		5U	
1,2-Dichloroethane	µg/L	2.5U U		5U	
1,2-Dimethylbenzene	µg/L	2.5U U		5U	
1,4-Dichlorobenzene	µg/L	2.5U U		5U	
2-Butanone	µg/L	40U U		80U	
4-Methyl-2-pentanone	µg/L	15U U		30U	
Acetone	µg/L	50U U		100U	
Benzene	µg/L	2.5U U		5U	
Bromodichloromethane	µg/L	2.5U U		5U	
Bromoform	µg/L	5U U		10U	
Bromomethane	µg/L	25U U		50U	
Carbon disulfide	µg/L	5U U		10U	
Carbon tetrachloride	µg/L	2.5U U		5U	
Chlorobenzene	µg/L	2.5U U		5U	
Chloroethane	µg/L	5U U		10U	
Chloroform	µg/L	2.5U U		5U	
Chloromethane	µg/L	5QU UJ		10QU	
cis-1,2-Dichloroethene	µg/L	46.8D =		73.5D	
Dibromochloromethane	µg/L	2.5U U		5U	
Ethylbenzene	µg/L	2.5U U		5U	
m,p-Xylenes	µg/L	5U U		10U	
Methylene chloride	µg/L	10U U		20U	
Tetrachloroethene	µg/L	2.5U U		13.8DJ	
Toluene	µg/L	2.5U U		5U	
trans-1,2-Dichloroethene	µg/L	5.7DJ J		9.91DJ	
Trichloroethene	µg/L	1300DJ J		1740DJ	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X230J7-01GA					
Trichlorofluoromethane	µg/L	5U U		10U	
Vinyl chloride	µg/L	2.5U U		5U	
Radionuclides					
Technetium-99	pCi/L	48.9 =			
Uranium	µg/L	2.4 =			
Uranium-233/234	pCi/L	0.787 =			
Uranium-235/236	pCi/L	0.0694U U			
Uranium-238	pCi/L	0.796 =			
Other Parameters					
Alkalinity	mg/L	7U U		7U	
Chloride	mg/L	64.2D =		56.5DJ	
Dissolved Solids	mg/L	510 =		612	
Sulfate	mg/L	239D =		272DJ	
Field Measurements					
Conductivity	µS/cm	739		897	
Depth to Water	ft	1.92		1.45	
Dissolved Oxygen	mg/L	0.29		3.49	
pH	Std Unit	4.35		4.46	
Temperature	deg C	11.5		17.3	
Turbidity	NTU	14.9		98	
X230J7-02GA					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	25U U		25U	
1,1,2,2-Tetrachloroethane	µg/L	32.6DJ J		30.4DJ	
1,1,2-Trichloroethane	µg/L	25U U		25U	
1,1-Dichloroethane	µg/L	25U U		25U	
1,1-Dichloroethene	µg/L	25U U		25U	
1,2-Dichlorobenzene	µg/L	25U U		25U	
1,2-Dichloroethane	µg/L	25U U		25U	
1,2-Dimethylbenzene	µg/L	25U U		25U	
1,4-Dichlorobenzene	µg/L	25U U		25U	
2-Butanone	µg/L	400U U		400U	
4-Methyl-2-pentanone	µg/L	150U U		150U	
Acetone	µg/L	500U U		500U	
Benzene	µg/L	25U U		25U	
Bromodichloromethane	µg/L	25U U		25U	
Bromoform	µg/L	50U U		50U	
Bromomethane	µg/L	250U U		250U	
Carbon disulfide	µg/L	50U U		50U	
Carbon tetrachloride	µg/L	25U U		25U	
Chlorobenzene	µg/L	25U U		25U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X230J7-02GA					
Chloroethane	µg/L	50U U		50U	
Chloroform	µg/L	25U U		25U	
Chloromethane	µg/L	50QU UJ		50QU	
cis-1,2-Dichloroethene	µg/L	275D =		303D	
Dibromochloromethane	µg/L	25U U		25U	
Ethylbenzene	µg/L	25U U		25U	
m,p-Xylenes	µg/L	50U U		50U	
Methylene chloride	µg/L	100U U		100U	
Tetrachloroethene	µg/L	35.8DJ J		46.5DJ	
Toluene	µg/L	25U U		25U	
trans-1,2-Dichloroethene	µg/L	43.2DJ J		44.7DJ	
Trichloroethene	µg/L	7740D =		5990D	
Trichlorofluoromethane	µg/L	50U U		50U	
Vinyl chloride	µg/L	25U U		25U	
Radionuclides					
Technetium-99	pCi/L	218 =			
Uranium	µg/L	0.668JU UJ			
Uranium-233/234	pCi/L	0.0764U U			
Uranium-235/236	pCi/L	0.123U U			
Uranium-238	pCi/L	0.205JU UJ			
Other Parameters					
Alkalinity	mg/L	9.47J J		9.87J	
Chloride	mg/L	59.4D =			55.9 =
Dissolved Solids	mg/L	1240 =		1350	
Sulfate	mg/L	726D =			769 =
Field Measurements					
Conductivity	µS/cm	1626		1908	1625
Depth to Water	ft	4.57		4.41	5.32
Dissolved Oxygen	mg/L	5.2		2.8	2.37
pH	Std Unit	4.56		4.69	4.58
Temperature	deg C	10		17.9	19.1
Turbidity	NTU	8.59		15.2	28.9
X230J7-03GA					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	50U U		50U	
1,1,2,2-Tetrachloroethane	µg/L	55.6DJ J		50U	
1,1,2-Trichloroethane	µg/L	50U U		50U	
1,1-Dichloroethane	µg/L	50U U		50U	
1,1-Dichloroethene	µg/L	50U U		50U	
1,2-Dichlorobenzene	µg/L	50U U		50U	
1,2-Dichloroethane	µg/L	50U U		50U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X230J7-03GA					
1,2-Dimethylbenzene	µg/L	50U U		50U	
1,4-Dichlorobenzene	µg/L	50U U		50U	
2-Butanone	µg/L	800U U		800U	
4-Methyl-2-pentanone	µg/L	300U U		300U	
Acetone	µg/L	1000U U		1000U	
Benzene	µg/L	50U U		50U	
Bromodichloromethane	µg/L	50U U		50U	
Bromoform	µg/L	100U U		100U	
Bromomethane	µg/L	500JU UJ		500U	
Carbon disulfide	µg/L	100U U		100U	
Carbon tetrachloride	µg/L	50U U		50U	
Chlorobenzene	µg/L	50U U		50U	
Chloroethane	µg/L	100U U		100U	
Chloroform	µg/L	50U U		50U	
Chloromethane	µg/L	100QU UJ		100U	
cis-1,2-Dichloroethene	µg/L	425D =		318D	
Dibromochloromethane	µg/L	50U U		50U	
Ethylbenzene	µg/L	50U U		50U	
m,p-Xylenes	µg/L	100U U		100U	
Methylene chloride	µg/L	200U U		200U	
Tetrachloroethene	µg/L	50U U		50U	
Toluene	µg/L	50U U		50U	
trans-1,2-Dichloroethene	µg/L	50U U		50U	
Trichloroethene	µg/L	15800DJ J		8800D	
Trichlorofluoromethane	µg/L	100U U		100U	
Vinyl chloride	µg/L	50U U		50U	
Radionuclides					
Americium-241	pCi/L	0.0134U U			
Neptunium-237	pCi/L	0.0101U U			
Plutonium-238	pCi/L	0.0499U U			
Plutonium-239/240	pCi/L	0.0222U U			
Technetium-99	pCi/L	114 J			
Uranium	µg/L	1.51 =			
Uranium-233/234	pCi/L	0.448 =			
Uranium-235/236	pCi/L	0.0474U U			
Uranium-238	pCi/L	0.499 =			
Other Parameters					
Alkalinity	mg/L	7U U		7U	
Chloride	mg/L	80.1D =		74.6D	
Dissolved Solids	mg/L	1360 =		1570	
Sulfate	mg/L	800DJ J		868D	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X230J7-03GA					
Field Measurements					
Conductivity	µS/cm	1734		1827	
Depth to Water	ft	6.53		6.83	
Dissolved Oxygen	mg/L	3.13		4.1	
pH	Std Unit	4.1		4.21	
Temperature	deg C	11.5		17.9	
Turbidity	NTU	2.95		4.51	
X230J7-04GA					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.25U	
1,1,2,2-Tetrachloroethane	µg/L			0.25U	
1,1,2-Trichloroethane	µg/L			0.25U	
1,1-Dichloroethane	µg/L			0.25U	
1,1-Dichloroethene	µg/L			0.25U	
1,2-Dichlorobenzene	µg/L			0.25U	
1,2-Dichloroethane	µg/L			0.25U	
1,2-Dimethylbenzene	µg/L			0.25U	
1,4-Dichlorobenzene	µg/L			0.25U	
2-Butanone	µg/L			4U	
4-Methyl-2-pentanone	µg/L			1.5U	
Acetone	µg/L			5U	
Benzene	µg/L			0.25U	
Bromodichloromethane	µg/L			0.25U	
Bromoform	µg/L			0.5U	
Bromomethane	µg/L			2.5U	
Carbon disulfide	µg/L			0.5U	
Carbon tetrachloride	µg/L			0.25U	
Chlorobenzene	µg/L			0.25U	
Chloroethane	µg/L			0.5U	
Chloroform	µg/L			0.25U	
Chloromethane	µg/L			0.772J	
cis-1,2-Dichloroethene	µg/L			0.25U	
Dibromochloromethane	µg/L			0.25U	
Ethylbenzene	µg/L			0.25U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			1U	
Tetrachloroethene	µg/L			0.25U	
Toluene	µg/L			0.25U	
trans-1,2-Dichloroethene	µg/L			0.25U	
Trichloroethene	µg/L			0.271J	
Trichlorofluoromethane	µg/L			0.5U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X230J7-04GA					
Vinyl chloride	µg/L			0.25U	
Radionuclides					
Technetium-99	pCi/L			-0.832U U	
Uranium	µg/L			0.156U U	
Uranium-233/234	pCi/L			0.0534U U	
Uranium-235/236	pCi/L			-0.00342U U	
Uranium-238	pCi/L			0.0526U U	
Field Measurements					
Conductivity	µS/cm			1066	
Depth to Water	ft			9.91	
Dissolved Oxygen	mg/L			2.07	
pH	Std Unit			6.5	
Temperature	deg C			20.6	
Turbidity	NTU			16	
X237-EPW					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			25U	
1,1,2,2-Tetrachloroethane	µg/L			25U	
1,1,2-Trichloroethane	µg/L			25U	
1,1-Dichloroethane	µg/L			25U	
1,1-Dichloroethene	µg/L			25U	
1,2-Dichlorobenzene	µg/L			25U	
1,2-Dichloroethane	µg/L			25U	
1,2-Dimethylbenzene	µg/L			25U	
1,4-Dichlorobenzene	µg/L			25U	
2-Butanone	µg/L			400U	
4-Methyl-2-pentanone	µg/L			150U	
Acetone	µg/L			500U	
Benzene	µg/L			25U	
Bromodichloromethane	µg/L			25U	
Bromoform	µg/L			50U	
Bromomethane	µg/L			250U	
Carbon disulfide	µg/L			50U	
Carbon tetrachloride	µg/L			25U	
Chlorobenzene	µg/L			25U	
Chloroethane	µg/L			50U	
Chloroform	µg/L			25U	
Chloromethane	µg/L			50U	
cis-1,2-Dichloroethene	µg/L			3600D	
Dibromochloromethane	µg/L			25U	
Ethylbenzene	µg/L			25U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X237-EPW					
m,p-Xylenes	µg/L			50U	
Methylene chloride	µg/L			100U	
Tetrachloroethene	µg/L			25U	
Toluene	µg/L			25U	
trans-1,2-Dichloroethene	µg/L			25U	
Trichloroethene	µg/L			5230D	
Trichlorofluoromethane	µg/L			50U	
Vinyl chloride	µg/L			25U	
Field Measurements					
Conductivity	µS/cm			1855	
Depth to Water	ft			7.94	
Dissolved Oxygen	mg/L			0	
pH	Std Unit			6.22	
Temperature	deg C			14.2	
Turbidity	NTU			60.5	
X237-WPW					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			50U	
1,1,2,2-Tetrachloroethane	µg/L			75DJ	
1,1,2-Trichloroethane	µg/L			50U	
1,1-Dichloroethane	µg/L			50U	
1,1-Dichloroethene	µg/L			50U	
1,2-Dichlorobenzene	µg/L			50U	
1,2-Dichloroethane	µg/L			50U	
1,2-Dimethylbenzene	µg/L			50U	
1,4-Dichlorobenzene	µg/L			50U	
2-Butanone	µg/L			800U	
4-Methyl-2-pentanone	µg/L			300U	
Acetone	µg/L			1000U	
Benzene	µg/L			50U	
Bromodichloromethane	µg/L			50U	
Bromoform	µg/L			100U	
Bromomethane	µg/L			500U	
Carbon disulfide	µg/L			100U	
Carbon tetrachloride	µg/L			50U	
Chlorobenzene	µg/L			50U	
Chloroethane	µg/L			100U	
Chloroform	µg/L			50U	
Chloromethane	µg/L			100U	
cis-1,2-Dichloroethene	µg/L			2630D	
Dibromochloromethane	µg/L			50U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X237-WPW					
Ethylbenzene	µg/L			50U	
m,p-Xylenes	µg/L			100U	
Methylene chloride	µg/L			200U	
Tetrachloroethene	µg/L			90.7DJ	
Toluene	µg/L			50U	
trans-1,2-Dichloroethene	µg/L			50U	
Trichloroethene	µg/L			24800D	
Trichlorofluoromethane	µg/L			100U	
Vinyl chloride	µg/L			249D	
Field Measurements					
Conductivity	µS/cm			3213	
Depth to Water	ft			9.15	
Dissolved Oxygen	mg/L			1.85	
pH	Std Unit			5.93	
Temperature	deg C			17.3	
Turbidity	NTU			4.03	
X701-01G					
Metals					
Beryllium	µg/L	2.17 = 2.75 =		1.1 =	
Cadmium	µg/L	39.1 = 42.7 =		32 =	
Chromium	µg/L	3U U 3U U		3U U	
Manganese	µg/L	3290 = 3250 =		3570 =	
Nickel	µg/L	466 = 496 =		385 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.33U U 1.33U U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	1.33U U 1.33U U		0.333U U	
1,1,2-Trichloroethane	µg/L	1.33U U 1.33U U		0.333U U	
1,1-Dichloroethane	µg/L	1.33U U 1.33U U		0.333U U	
1,1-Dichloroethene	µg/L	1.33U U 1.33U U		2.24 =	
1,2-Dichlorobenzene	µg/L	1.33U U 1.33U U		0.333U U	
1,2-Dichloroethane	µg/L	1.33U U 1.33U U		0.333U U	
1,2-Dimethylbenzene	µg/L	1.33U U 1.33U U		0.333U U	
1,4-Dichlorobenzene	µg/L	1.33U U 1.33U U		0.333U U	
2-Butanone	µg/L	6.67U U 6.67U U		1.67U U	
4-Methyl-2-pentanone	µg/L	6.67U U 6.67U U		1.67U U	
Acetone	µg/L	6.98U U 6.98U U		1.74U U	
Benzene	µg/L	1.33U U 1.33U U		0.333U U	
Bromodichloromethane	µg/L	1.33U U 1.33U U		0.333U U	
Bromoform	µg/L	1.33U U 1.33U U		0.333U U	
Bromomethane	µg/L	1.35U U 1.35U U		0.337U U	
Carbon disulfide	µg/L	6.67U U 6.67U U		1.67U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter		Second Quarter		Third Quarter		Fourth Quarter
X701-01G								
Carbon tetrachloride	µg/L	1.33U	U	1.33U	U	0.333U	U	
Chlorobenzene	µg/L	1.33U	U	1.33U	U	0.333U	U	
Chloroethane	µg/L	1.33U	U	1.33U	U	0.333U	U	
Chloroform	µg/L	1.33U	U	1.33U	U	0.333U	U	
Chloromethane	µg/L	1.33U	U	1.33U	U	0.333U	U	
cis-1,2-Dichloroethene	µg/L	35.9	J	38.9	J	65.5	=	
Dibromochloromethane	µg/L	1.33U	U	1.33U	U	0.333U	U	
Ethylbenzene	µg/L	1.33U	U	1.33U	U	0.333U	U	
m,p-Xylenes	µg/L	2U	U	2U	U	0.5U	U	
Methylene chloride	µg/L	5.92J	UJ	6.4J	UJ	0.5U	U	
Tetrachloroethene	µg/L	1.33U	U	1.33U	U	0.333U	U	
Toluene	µg/L	1.33U	U	1.33U	U	0.333U	U	
trans-1,2-Dichloroethene	µg/L	1.92J	J	2.12J	J	3.63	=	
Trichloroethene	µg/L	141	J	160	J	381	=	
Trichlorofluoromethane	µg/L	1.33U	U	1.33U	U	0.333U	U	
Vinyl chloride	µg/L	1.33U	U	1.33U	U	1.11	=	
Radionuclides								
Technetium-99	pCi/L	-0.624U	U	0.942U	U			
Uranium	µg/L	4.02	=	3.9	J			
Uranium-233/234	pCi/L	2.06	=	2.4	=			
Uranium-235/236	pCi/L	0.141U	U	0.135JU	UJ			
Uranium-238	pCi/L	1.33	=	1.29	=			
Field Measurements								
Conductivity	µS/cm	3610				4814		
Depth to Water	ft	15.75				15.5		
Dissolved Oxygen	mg/L	0				0.31		
pH	Std Unit	5.77				6.1		
Temperature	deg C	15.3				15.3		
Turbidity	NTU	4.85				1.45		
X701-02G								
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	0.25U				0.333U		
1,1,2,2-Tetrachloroethane	µg/L	0.25U				0.333U		
1,1,2-Trichloroethane	µg/L	0.25U				0.333U		
1,1-Dichloroethane	µg/L	0.25U				0.333U		
1,1-Dichloroethene	µg/L	0.25U				0.333U		
1,2-Dichlorobenzene	µg/L	0.25U				0.333U		
1,2-Dichloroethane	µg/L	0.25U				0.333U		
1,2-Dimethylbenzene	µg/L	0.25U				0.333U		
1,4-Dichlorobenzene	µg/L	0.25U				0.333U		
2-Butanone	µg/L	4U				1.67U		

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-02G					
4-Methyl-2-pentanone	µg/L	1.5U		1.67U	
Acetone	µg/L	5U		1.74U	
Benzene	µg/L	0.25U		0.333U	
Bromodichloromethane	µg/L	0.25U		0.333U	
Bromoform	µg/L	0.5U		0.333U	
Bromomethane	µg/L	2.5U		0.337U	
Carbon disulfide	µg/L	0.5U		1.67U	
Carbon tetrachloride	µg/L	0.25U		0.333U	
Chlorobenzene	µg/L	0.25U		0.333U	
Chloroethane	µg/L	0.5U		0.333U	
Chloroform	µg/L	0.25U		0.333U	
Chloromethane	µg/L	0.5U		0.333U	
cis-1,2-Dichloroethene	µg/L	2.54		2.28	
Dibromochloromethane	µg/L	0.25U		0.333U	
Ethylbenzene	µg/L	0.25U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	1U		0.5U	
Tetrachloroethene	µg/L	0.25U		0.333U	
Toluene	µg/L	0.25U		0.333U	
trans-1,2-Dichloroethene	µg/L	0.25U		0.333U	
Trichloroethene	µg/L	9.12		8.65	
Trichlorofluoromethane	µg/L	0.5U		0.333U	
Vinyl chloride	µg/L	0.25U		0.333U	
Radionuclides					
Technetium-99	pCi/L	0.618U			
Uranium	µg/L	0.223U			
Uranium-233/234	pCi/L	0.356JU			
Uranium-235/236	pCi/L	0U			
Uranium-238	pCi/L	0.075U			
Other Parameters					
Alkalinity	mg/L	124		122	
Chloride	mg/L	164D		159	
Dissolved Solids	mg/L	599		613	
Sulfate	mg/L	140DJ		133	
Field Measurements					
Conductivity	µS/cm	989		1044	
Depth to Water	ft	12.86		11.81	
Dissolved Oxygen	mg/L	0.31		0.03	
pH	Std Unit	5.72		5.85	
Temperature	deg C	15.1		16.3	
Turbidity	NTU	17.3		15.2	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.25U		0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.25U		0.333U	
1,1,2-Trichloroethane	µg/L	0.25U		0.333U	
1,1-Dichloroethane	µg/L	0.25U		0.333U	
1,1-Dichloroethene	µg/L	2.3		3.26	
1,2-Dichlorobenzene	µg/L	0.25U		0.333U	
1,2-Dichloroethane	µg/L	0.25U		0.333U	
1,2-Dimethylbenzene	µg/L	0.25U		0.333U	
1,4-Dichlorobenzene	µg/L	0.25U		0.333U	
2-Butanone	µg/L	4U		1.67U	
4-Methyl-2-pentanone	µg/L	1.5U		1.67U	
Acetone	µg/L	5U		1.74U	
Benzene	µg/L	0.25U		0.333U	
Bromodichloromethane	µg/L	0.25U		0.333U	
Bromoform	µg/L	0.5U		0.333U	
Bromomethane	µg/L	2.5U		0.337U	
Carbon disulfide	µg/L	0.5U		1.67U	
Carbon tetrachloride	µg/L	0.25U		0.333U	
Chlorobenzene	µg/L	0.25U		0.333U	
Chloroethane	µg/L	0.5U		0.333U	
Chloroform	µg/L	0.25U		0.333U	
Chloromethane	µg/L	0.5U		0.333U	
cis-1,2-Dichloroethene	µg/L	22.8		24.7	
Dibromochloromethane	µg/L	0.25U		0.333U	
Ethylbenzene	µg/L	0.25U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	1U		0.5U	
Tetrachloroethene	µg/L	0.25U		0.333U	
Toluene	µg/L	0.25U		0.333U	
trans-1,2-Dichloroethene	µg/L	0.766J		1.08	
Trichloroethene	µg/L	93.6		130	
Trichlorofluoromethane	µg/L	0.5U		0.333U	
Vinyl chloride	µg/L	1.15		1.59	
Radionuclides					
Technetium-99	pCi/L	23.6			
Uranium	µg/L	1.5			
Uranium-233/234	pCi/L	1.2			
Uranium-235/236	pCi/L	0.0857U			
Uranium-238	pCi/L	0.489			

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-06G					
Other Parameters					
Alkalinity	mg/L	189		159	
Chloride	mg/L	84.9D		94.2	
Dissolved Solids	mg/L	574		646	
Sulfate	mg/L	150D		163	
Field Measurements					
Conductivity	µS/cm	896		958	
Depth to Water	ft	14.89		14.02	
Dissolved Oxygen	mg/L	1.57		0.1	
pH	Std Unit	6.06		3.95	
Temperature	deg C	15.3		16.1	
Turbidity	NTU	21.5		108	
X701-15G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U U	
1,1-Dichloroethane	µg/L	0.333U		0.333U U	
1,1-Dichloroethene	µg/L	0.333U		0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		1.74U U	
Benzene	µg/L	0.333U		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337U		0.337U U	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	0.333U		0.333U U	
Chloromethane	µg/L	0.333U		0.333U U	
cis-1,2-Dichloroethene	µg/L	28.6		52.8 =	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	0.5U		5.67 UJ	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-15G					
Tetrachloroethene	µg/L	0.333U		0.333U U	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	1.68		3.76 =	
Trichloroethene	µg/L	1.53		3.37 =	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	0.333U		0.333U U	
Radionuclides					
Technetium-99	pCi/L	-2.93U U			
Uranium	µg/L	0.11U U			
Uranium-233/234	pCi/L	0.0607U U			
Uranium-235/236	pCi/L	0.0318U U			
Uranium-238	pCi/L	0.0321U U			
Field Measurements					
Conductivity	µS/cm	533		811	
Depth to Water	ft	5.83		8.42	
Dissolved Oxygen	mg/L	1.2		1.05	
pH	Std Unit	6.16		6.23	
Temperature	deg C	7.8		20.7	
Turbidity	NTU	5.14		10.1	
X701-16G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U	
1,1-Dichloroethane	µg/L	0.333U		0.333U	
1,1-Dichloroethene	µg/L	0.333U		0.333U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.333U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.333U		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337U		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-16G					
Chloroform	µg/L	0.333U		0.333U	
Chloromethane	µg/L	0.333U		0.333U	
cis-1,2-Dichloroethene	µg/L	0.333U		0.333U	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	2.04J		0.5U	
Tetrachloroethene	µg/L	0.333U		0.333U	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	0.333U		0.333U	
Trichloroethene	µg/L	0.333U		0.333U	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	0.333U		0.333U	
Radionuclides					
Technetium-99	pCi/L	5.33JU UJ			
Uranium	µg/L	0.172U U			
Uranium-233/234	pCi/L	0.0655JU UJ			
Uranium-235/236	pCi/L	0.0323U U			
Uranium-238	pCi/L	0.0527U U			
Field Measurements					
Conductivity	µS/cm	1150		912	
Depth to Water	ft	7.26		7.12	
Dissolved Oxygen	mg/L	5.37		0.74	
pH	Std Unit	5.19		5.04	
Temperature	deg C	9		23.8	
Turbidity	NTU	12		4.96	
X701-18G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-18G					
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U U	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			1.07J J	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			0.333U U	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Radionuclides					
Technetium-99	pCi/L			-0.835U U	
Uranium	µg/L			0.137JU UJ	
Uranium-233/234	pCi/L			0.0522JU UJ	
Uranium-235/236	pCi/L			0.0136U U	
Uranium-238	pCi/L			0.044JU UJ	
Field Measurements					
Conductivity	µS/cm			318.5	
Depth to Water	ft			12.33	
Dissolved Oxygen	mg/L			1.69	
pH	Std Unit			6.18	
Temperature	deg C			17.6	
Turbidity	NTU			11.8	
X701-19G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U U	
1,1-Dichloroethane	µg/L	0.333U		0.333U U	
1,1-Dichloroethene	µg/L	0.333U		0.333U UJ	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-19G					
1,2-Dichloroethane	µg/L	0.333U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		1.74U U	
Benzene	µg/L	0.333U		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337U		0.337U U	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	0.333U		0.333U U	
Chloromethane	µg/L	0.333U		0.333U UJ	
cis-1,2-Dichloroethene	µg/L	0.333U		0.333U U	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	1.94J		3.97J J	
Tetrachloroethene	µg/L	0.333U		0.333U U	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	0.333U		0.333U U	
Trichloroethene	µg/L	3.55		3.29 =	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	0.333U		0.333U UJ	
Radionuclides					
Technetium-99	pCi/L	2.69U U			
Uranium	µg/L	0.147JU UJ			
Uranium-233/234	pCi/L	0.0254U U			
Uranium-235/236	pCi/L	0.0279JU UJ			
Uranium-238	pCi/L	0.0451JU UJ			
Field Measurements					
Conductivity	µS/cm	486.5		513	
Depth to Water	ft	6.75		8.84	
Dissolved Oxygen	mg/L	0.84		0.52	
pH	Std Unit	5.24		5.34	
Temperature	deg C	12.4		15.4	
Turbidity	NTU	10.9		1.65	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
X701-20G									
Metals									
Beryllium	µg/L	0.2U	U	0.2U	U	0.2U	U	0.2U	U
Cadmium	µg/L	5.26	=	5.4	=	4.96	=	5.06	=
Chromium	µg/L	3U	U	3U	U	3U	U	3U	U
Manganese	µg/L	1260	=	1260	=	1160	J	1130	J
Nickel	µg/L	116	=	116	=	105	=	101	=
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	12.6		13.5		12.5	=	12.5	=
1,1,2,2-Tetrachloroethane	µg/L	83.7		83.4		90.9	=	90.8	=
1,1,2-Trichloroethane	µg/L	38		38.4		41.1	=	40.4	=
1,1-Dichloroethane	µg/L	2.18		2.22		2.27	=	2.21	=
1,1-Dichloroethene	µg/L	6.51		6.82		0.333U	U	0.333U	U
1,2-Dichlorobenzene	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
1,2-Dichloroethane	µg/L	0.99J		1.07		0.333U	UJ	1.5	J
1,2-Dimethylbenzene	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
1,4-Dichlorobenzene	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
2-Butanone	µg/L	1.67U		1.67U		1.67U	U	2.16J	J
4-Methyl-2-pentanone	µg/L	1.67U		1.67U		1.67U	U	1.67U	U
Acetone	µg/L	1.74U		1.74U		1.74U	U	1.74U	U
Benzene	µg/L	0.5J		0.5J		0.51J	J	0.5J	J
Bromodichloromethane	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
Bromoform	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
Bromomethane	µg/L	0.337U		0.337U		0.337U	U	0.337U	U
Carbon disulfide	µg/L	1.67U		1.67U		1.67U	U	1.67U	U
Carbon tetrachloride	µg/L	1.98		2.05		1.8	=	1.85	=
Chlorobenzene	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
Chloroethane	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
Chloroform	µg/L	7.28		7.56		7.74	=	7.66	=
Chloromethane	µg/L	3.1		3.27		5.02	J	7.18	J
cis-1,2-Dichloroethene	µg/L	380J		333U		333U	U	370J	J
Dibromochloromethane	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
Ethylbenzene	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
m,p-Xylenes	µg/L	0.5U		0.5U		0.5U	U	0.5U	U
Methylene chloride	µg/L	1.95J		1.83J		5.81	UJ	6.02	UJ
Tetrachloroethene	µg/L	333U		333U		97.2	=	98.6	=
Toluene	µg/L	0.4J		0.4J		0.333U	U	0.36J	J
trans-1,2-Dichloroethene	µg/L	50.9		51.9		57.7	=	59.6	=
Trichloroethene	µg/L	40000		27500		24600	=	32400	=
Trichlorofluoromethane	µg/L	0.333U		0.333U		0.333U	U	0.333U	U
Vinyl chloride	µg/L	3.46		3.58		333U	U	333U	U

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-20G					
Radionuclides					
Americium-241	pCi/L	0.0213U U	0.0503U U	0.052U U	0.00538U U
Neptunium-237	pCi/L	-0.0203U U	0.0574U U	-0.0314U U	0.00351U U
Plutonium-238	pCi/L	0.0135U U	0.00898U U	0.0448U U	0.0264U U
Plutonium-239/240	pCi/L	0.0135U U	-0.0449U U	0.0192U U	0.00661U U
Technetium-99	pCi/L	116 =	125 =	111 =	115 =
Uranium	µg/L	0.26U U	0.411JU UJ	0.355JU UJ	0.345JU UJ
Uranium-233/234	pCi/L	0.125JU UJ	0.13JU UJ	0.0218U U	0.0693U U
Uranium-235/236	pCi/L	-0.0273U U	0.0422U U	-0.0136U U	0.00513U U
Uranium-238	pCi/L	0.0874U U	0.132JU UJ	0.119JU UJ	0.115JU UJ
Other Parameters					
Alkalinity	mg/L	44.5	44	43.5 =	43.5 =
Chloride	mg/L	115	116	114 =	118 =
Dissolved Solids	mg/L	2000	2020	2060	1040
Sulfate	mg/L	1210	1080	1140 =	1180 =
Field Measurements					
Conductivity	µS/cm	2613		2954	
Depth to Water	ft	26.53		27.8	
Dissolved Oxygen	mg/L	0.26		1.69	
pH	Std Unit	4.48		5.02	
Temperature	deg C	12		15.4	
Turbidity	NTU	14.4		9.4	
X701-21G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	6.41		10.2 =	
1,1,2,2-Tetrachloroethane	µg/L	13.2		22.8 =	
1,1,2-Trichloroethane	µg/L	5.51		7.68 =	
1,1-Dichloroethane	µg/L	2.07		2.66 =	
1,1-Dichloroethene	µg/L	2.2		133JU UJ	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		1.74U U	
Benzene	µg/L	0.333U		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337U		0.337U U	
Carbon disulfide	µg/L	1.67U		1.67U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-21G					
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	0.76J		1.2 =	
Chloromethane	µg/L	0.333U		133JU UJ	
cis-1,2-Dichloroethene	µg/L	619		996J J	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	1.4J		0.5U U	
Tetrachloroethene	µg/L	15		18.8 =	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	80.6		140J J	
Trichloroethene	µg/L	4880		6900J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	15.6		133JU UJ	
Radionuclides					
Technetium-99	pCi/L	376 =			
Uranium	µg/L	0.255JU UJ			
Uranium-233/234	pCi/L	0.113JU UJ			
Uranium-235/236	pCi/L	0.0194U U			
Uranium-238	pCi/L	0.0826JU UJ			
Other Parameters					
Alkalinity	mg/L	52	60.5 =	67 =	62.5*
Chloride	mg/L	49.4	44.3 =	41.3 =	46.6
Dissolved Solids	mg/L	968	1040 =	1180 =	1050
Sulfate	mg/L	557	607 =	735 =	611
Field Measurements					
Conductivity	µS/cm	1380	1438	1680	1693
Depth to Water	ft	19.3	18.6	19.31	20.12
Dissolved Oxygen	mg/L	0	0.5	0.08	2.77
pH	Std Unit	5.28	5.32	5.4	5.39
Temperature	deg C	13.8	14.7	15	13.6
Turbidity	NTU	2.5	2.39	0.4	0.15
X701-23G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-23G					
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.81J J	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			1.29J J	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			13.4 =	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Radionuclides					
Technetium-99	pCi/L			27.3 =	
Uranium	µg/L			0.119JU UJ	
Uranium-233/234	pCi/L			0.019U U	
Uranium-235/236	pCi/L			0.00441U U	
Uranium-238	pCi/L			0.0392JU UJ	
Field Measurements					
Conductivity	µS/cm			513	
Depth to Water	ft			11.25	
Dissolved Oxygen	mg/L			0.23	
pH	Std Unit			5.7	
Temperature	deg C			16.2	
Turbidity	NTU			0.59	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-24G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	16.7U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	16.7U		0.333U U	
1,1,2-Trichloroethane	µg/L	16.7U		2.42 =	
1,1-Dichloroethane	µg/L	16.7U		0.333U U	
1,1-Dichloroethene	µg/L	16.7U		13.3U UJ	
1,2-Dichlorobenzene	µg/L	16.7U		0.333U U	
1,2-Dichloroethane	µg/L	16.7U		0.333U U	
1,2-Dimethylbenzene	µg/L	16.7U		0.333U U	
1,4-Dichlorobenzene	µg/L	16.7U		0.333U U	
2-Butanone	µg/L	83.4U		1.67U U	
4-Methyl-2-pentanone	µg/L	83.4U		1.67U U	
Acetone	µg/L	87.2U		1.74U U	
Benzene	µg/L	16.7U		0.333U U	
Bromodichloromethane	µg/L	16.7U		0.333U U	
Bromoform	µg/L	16.7U		0.333U U	
Bromomethane	µg/L	16.9U		0.337U U	
Carbon disulfide	µg/L	83.4U		1.67U U	
Carbon tetrachloride	µg/L	16.7U		0.333U U	
Chlorobenzene	µg/L	16.7U		0.333U U	
Chloroethane	µg/L	16.7U		0.333U U	
Chloroform	µg/L	16.7U		0.333U U	
Chloromethane	µg/L	16.7U		0.333QU UJ	
cis-1,2-Dichloroethene	µg/L	798		820 =	
Dibromochloromethane	µg/L	16.7U		0.333U U	
Ethylbenzene	µg/L	16.7U		0.333U U	
m,p-Xylenes	µg/L	25U		0.5U U	
Methylene chloride	µg/L	76.5J		0.5U U	
Tetrachloroethene	µg/L	16.7U		0.88J J	
Toluene	µg/L	16.7U		0.333U U	
trans-1,2-Dichloroethene	µg/L	16.7U		8.14 =	
Trichloroethene	µg/L	1240		1290 =	
Trichlorofluoromethane	µg/L	16.7U		0.333U U	
Vinyl chloride	µg/L	24.5J		13.3U UJ	
Radionuclides					
Americium-241	pCi/L	0.0247U U			
Neptunium-237	pCi/L	0.00567U U			
Plutonium-238	pCi/L	0.00752U U			
Plutonium-239/240	pCi/L	0.0113U U			
Technetium-99	pCi/L	2.73U U			
Uranium	µg/L	0.235JU UJ			

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-24G					
Uranium-233/234	pCi/L	0.0904JU UJ			
Uranium-235/236	pCi/L	0.0124U U			
Uranium-238	pCi/L	0.077JU UJ			
Other Parameters					
Alkalinity	mg/L	64		47 =	
Chloride	mg/L	11.5		11 =	
Dissolved Solids	mg/L	174		144 =	
Sulfate	mg/L	73.9		61.2 =	
Field Measurements					
Conductivity	µS/cm	345.5		290.1	
Depth to Water	ft	7.06		7.22	
Dissolved Oxygen	mg/L	0.94		0.19	
pH	Std Unit	5.69		5.52	
Temperature	deg C	6.6		21.8	
Turbidity	NTU	3.89		1.58	
X701-25G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			0.333U
1,1,2,2-Tetrachloroethane	µg/L	0.333U			0.333U
1,1,2-Trichloroethane	µg/L	0.333U			0.333U
1,1-Dichloroethane	µg/L	0.333U			0.333U
1,1-Dichloroethene	µg/L	0.333U			0.333U
1,2-Dichlorobenzene	µg/L	0.333U			0.333U
1,2-Dichloroethane	µg/L	0.333U			0.333U
1,2-Dimethylbenzene	µg/L	0.333U			0.333U
1,4-Dichlorobenzene	µg/L	0.333U			0.333U
2-Butanone	µg/L	1.67U			1.67U
4-Methyl-2-pentanone	µg/L	1.67U			1.67U
Acetone	µg/L	1.74U			1.74U
Benzene	µg/L	0.333U			0.333U
Bromodichloromethane	µg/L	0.333U			0.333U
Bromoform	µg/L	0.333U			0.333U
Bromomethane	µg/L	0.337QU			0.337U
Carbon disulfide	µg/L	1.67U			1.67U
Carbon tetrachloride	µg/L	0.333U			0.333U
Chlorobenzene	µg/L	0.333U			0.333*U
Chloroethane	µg/L	0.333U			0.333U
Chloroform	µg/L	0.333U			0.333U
Chloromethane	µg/L	0.333U			0.333U
cis-1,2-Dichloroethene	µg/L	0.333JU			0.333U
Dibromochloromethane	µg/L	0.333U			0.333U

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-25G					
Ethylbenzene	µg/L	0.333U			0.333*U
m,p-Xylenes	µg/L	0.5U			0.5*U
Methylene chloride	µg/L	0.58J			0.5U
Tetrachloroethene	µg/L	0.333U			0.333U
Toluene	µg/L	0.333U			0.333*U
trans-1,2-Dichloroethene	µg/L	0.333U			0.333U
Trichloroethene	µg/L	0.333JU			0.333U
Trichlorofluoromethane	µg/L	0.333U			0.333U
Vinyl chloride	µg/L	0.333U			0.333U
Radionuclides					
Technetium-99	pCi/L	-0.428U U			
Uranium	µg/L	0.00308U U			
Uranium-233/234	pCi/L	0.0571U U			
Uranium-235/236	pCi/L	0.00665U U			
Uranium-238	pCi/L	-0.0501U U			
Field Measurements					
Conductivity	µS/cm	1466			1402
Depth to Water	ft	9.55			10.12
Dissolved Oxygen	mg/L	2.86			2.22
pH	Std Unit	5.35			5.43
Temperature	deg C	13.2			14.5
Turbidity	NTU	69.5			37.8
X701-30G					
Metals					
Beryllium	µg/L	0.2U U		0.2U U	
Cadmium	µg/L	0.474J J		0.545J J	
Chromium	µg/L	3U U		3.59J J	
Manganese	µg/L	4.84J J		5.92 =	
Nickel	µg/L	2.06 =		14.4 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U U		0.333U U	
1,1-Dichloroethane	µg/L	0.333U U		0.333U U	
1,1-Dichloroethene	µg/L	0.333U U		0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U U		0.333U U	
2-Butanone	µg/L	1.67U U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U U		1.67U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-30G					
Acetone	µg/L	1.74U U		1.74U U	
Benzene	µg/L	0.333U U		0.333U U	
Bromodichloromethane	µg/L	0.333U U		0.333U U	
Bromoform	µg/L	0.333U U		0.333U U	
Bromomethane	µg/L	0.337U U		0.337U U	
Carbon disulfide	µg/L	1.67U U		1.67U U	
Carbon tetrachloride	µg/L	0.333U U		0.333U U	
Chlorobenzene	µg/L	0.333U U		0.333U U	
Chloroethane	µg/L	0.333U U		0.333U U	
Chloroform	µg/L	0.333U U		0.333U U	
Chloromethane	µg/L	0.333U U		0.333U U	
cis-1,2-Dichloroethene	µg/L	0.333U U		0.333U U	
Dibromochloromethane	µg/L	0.333U U		0.333U U	
Ethylbenzene	µg/L	0.333U U		0.333U U	
m,p-Xylenes	µg/L	0.5U U		0.5U U	
Methylene chloride	µg/L	1.16J UJ		0.5U U	
Tetrachloroethene	µg/L	0.333U U		0.333U U	
Toluene	µg/L	0.333U U		0.333U U	
trans-1,2-Dichloroethene	µg/L	0.333U U		0.333U U	
Trichloroethene	µg/L	2.68 UJ		2.75 =	
Trichlorofluoromethane	µg/L	0.333U U		0.333U U	
Vinyl chloride	µg/L	0.333U U		0.333U U	
Radionuclides					
Technetium-99	pCi/L	2.2U U			
Uranium	µg/L	0.101U U			
Uranium-233/234	pCi/L	0.172JU UJ			
Uranium-235/236	pCi/L	-0.0131U U			
Uranium-238	pCi/L	0.0341U U			
Field Measurements					
Conductivity	µS/cm	1045		1118	
Depth to Water	ft	19.99		19.78	
Dissolved Oxygen	mg/L	0.17		0.4	
pH	Std Unit	6.14		6.3	
Temperature	deg C	14.4		17.1	
Turbidity	NTU	4.04		1.14	
X701-31G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-31G					
1,1-Dichloroethene	µg/L			0.333U U	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			0.333U U	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			0.5U U	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			0.333U U	
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			0.333U U	
Radionuclides					
Technetium-99	pCi/L			-1.91U U	
Uranium	µg/L			1.79 =	
Uranium-233/234	pCi/L			0.767 =	
Uranium-235/236	pCi/L			0.0328U U	
Uranium-238	pCi/L			0.597 =	
Field Measurements					
Conductivity	µS/cm			1776	
Depth to Water	ft			23.09	
Dissolved Oxygen	mg/L			0.1	
pH	Std Unit			5.99	
Temperature	deg C			15.6	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-31G					
Turbidity	NTU			0.59	
X701-38G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Technetium-99	pCi/L			1.43U U	
Uranium	µg/L			0.0615U U	
Uranium-233/234	pCi/L			0.0232U U	
Uranium-235/236	pCi/L			0.00138U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-38G					
Uranium-238	pCi/L			0.0205U U	
Field Measurements					
Conductivity	µS/cm			624	
Depth to Water	ft			15.04	
Dissolved Oxygen	mg/L			0.15	
pH	Std Unit			5.76	
Temperature	deg C			16.1	
Turbidity	NTU			0.36	
X701-42G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			3.3	
1,1,2,2-Tetrachloroethane	µg/L			4.41	
1,1,2-Trichloroethane	µg/L			3.21	
1,1-Dichloroethane	µg/L			1.44	
1,1-Dichloroethene	µg/L			1.94	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			418J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			5.86J	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			35.5	
Trichloroethene	µg/L			2210J	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-42G					
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			16.4J	
Radionuclides					
Technetium-99	pCi/L			273 =	
Uranium	µg/L			0.151U U	
Uranium-233/234	pCi/L			0.033U U	
Uranium-235/236	pCi/L			0.0219U U	
Uranium-238	pCi/L			0.0474U U	
Field Measurements					
Conductivity	µS/cm			1299	
Depth to Water	ft			12.31	
Dissolved Oxygen	mg/L			0.1	
pH	Std Unit			5.46	
Temperature	deg C			16.5	
Turbidity	NTU			3.93	
X701-48G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-48G					
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333JU	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Americium-241	pCi/L			0.0379U U	
Neptunium-237	pCi/L			-0.0134U U	
Plutonium-238	pCi/L			0.0248U U	
Plutonium-239/240	pCi/L			0.00825U U	
Technetium-99	pCi/L			0.858U U	
Uranium	µg/L			0.0516U U	
Uranium-233/234	pCi/L			0.00883U U	
Uranium-235/236	pCi/L			0.00715U U	
Uranium-238	pCi/L			0.0162U U	
Field Measurements					
Conductivity	µS/cm			219.7	
Depth to Water	ft			5.31	
Dissolved Oxygen	mg/L			1.63	
pH	Std Unit			5.79	
Temperature	deg C			17.3	
Turbidity	NTU			6.77	
X701-58B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-58B					
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.333U	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Technetium-99	pCi/L			0.682U *U*	
Uranium	µg/L			0.204JU *UJ*	
Uranium-233/234	pCi/L			0.136 *=*	
Uranium-235/236	pCi/L			0.0236U *U*	
Uranium-238	pCi/L			0.065JU *UJ*	
Field Measurements					
Conductivity	µS/cm			1343	
Depth to Water	ft			6.5	
Dissolved Oxygen	mg/L			3.74	
pH	Std Unit			6.88	
Temperature	deg C			19.2	
Turbidity	NTU			1.45	
X701-61B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-61B					
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			0.333U	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			2.63	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			0.78J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Technetium-99	pCi/L			-0.792U *U*	
Uranium	µg/L			0.194JU *UJ*	
Uranium-233/234	pCi/L			0.0479U *U*	
Uranium-235/236	pCi/L			-0.00327U *U*	
Uranium-238	pCi/L			0.0651JU *UJ*	
Field Measurements					
Conductivity	µS/cm			2200	
Depth to Water	ft			7.83	
Dissolved Oxygen	mg/L			2.71	
pH	Std Unit			6.96	
Temperature	deg C			16.5	
Turbidity	NTU			37	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-66G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U 0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U 0.333U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U 0.333U	
1,1-Dichloroethane	µg/L	0.333U		0.333U 0.333U	
1,1-Dichloroethene	µg/L	0.99J		1.17 1.14	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U 0.333U	
1,2-Dichloroethane	µg/L	0.333U		0.333U 0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U 0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U 0.333U	
2-Butanone	µg/L	1.67U		1.67U 1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U 1.67U	
Acetone	µg/L	9.54		1.74U 1.74U	
Benzene	µg/L	0.333U		0.333U 0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U 0.333U	
Bromoform	µg/L	0.333U		0.333U 0.333U	
Bromomethane	µg/L	0.337U		0.337U 0.337U	
Carbon disulfide	µg/L	1.67U		1.67U 1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U 0.333U	
Chlorobenzene	µg/L	0.333U		0.333U 0.333U	
Chloroethane	µg/L	0.333U		0.333U 0.333U	
Chloroform	µg/L	0.333U		0.333U 0.333U	
Chloromethane	µg/L	0.333U		0.333U 0.333U	
cis-1,2-Dichloroethene	µg/L	85		109 107	
Dibromochloromethane	µg/L	0.333U		0.333U 0.333U	
Ethylbenzene	µg/L	0.333U		0.333U 0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U 0.5U	
Methylene chloride	µg/L	0.5U		0.5U 0.5U	
Tetrachloroethene	µg/L	0.66J		0.92J 0.89J	
Toluene	µg/L	0.333U		0.333U 0.333U	
trans-1,2-Dichloroethene	µg/L	2.01		2.71 2.72	
Trichloroethene	µg/L	249J		456 455	
Trichlorofluoromethane	µg/L	0.333U		0.333U 0.333U	
Vinyl chloride	µg/L	5.02		9.33 9.35	
Radionuclides					
Americium-241	pCi/L	-0.00422U U		0.00485U U 0.00763U U	
Neptunium-237	pCi/L	-0.0415U U		-0.000308U U 0.00333U U	
Plutonium-238	pCi/L	0.0206U U		-0.00694U U 0.0109U U	
Plutonium-239/240	pCi/L	0.0225U U		-0.0104U U 0.0325U U	
Technetium-99	pCi/L	39.4 =		51 = 48.9 =	
Uranium	µg/L	1.09 =		0.57JU UJ 0.964 J	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-66G					
Uranium-233/234	pCi/L	0.403 =		0.357 = 0.167JU UJ	
Uranium-235/236	pCi/L	0.0336U U		0.0365U U 0.00996U U	
Uranium-238	pCi/L	0.361 =		0.186JU UJ 0.322 =	
Other Parameters					
Alkalinity	mg/L	146		126 125	
Chloride	mg/L	11.3		15.8 15.7	
Dissolved Solids	mg/L	361		375 378	
Sulfate	mg/L	112		105 104	
Field Measurements					
Conductivity	µS/cm	535		535	
Depth to Water	ft	14.35		13.9	
Dissolved Oxygen	mg/L	6.3		0.24	
pH	Std Unit	6.05		5.85	
Temperature	deg C	12.1		16.3	
Turbidity	NTU	3.11		0.51	
X701-77G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.45J	
1,1,2-Trichloroethane	µg/L			1.94	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			1.08	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.91J	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			24.6	
Dibromochloromethane	µg/L			0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-77G					
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			2.64	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.97J	
Trichloroethene	µg/L			1210J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Technetium-99	pCi/L			24.3 =	
Uranium	µg/L			0.119U U	
Uranium-233/234	pCi/L			0.0419U U	
Uranium-235/236	pCi/L			0.0081U U	
Uranium-238	pCi/L			0.0387U U	
Field Measurements					
Conductivity	µS/cm			1391	
Depth to Water	ft			14.28	
Dissolved Oxygen	mg/L			0.04	
pH	Std Unit			5.83	
Temperature	deg C			17.3	
Turbidity	NTU			0.86	
X701-79G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.83J	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-79G					
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.37J	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			4.04	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.44J	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			507J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Radionuclides					
Technetium-99	pCi/L			16.9 =	
Uranium	µg/L			0.127U U	
Uranium-233/234	pCi/L			0.0277U U	
Uranium-235/236	pCi/L			0.00373U U	
Uranium-238	pCi/L			0.0422U U	
Field Measurements					
Conductivity	µS/cm			771	
Depth to Water	ft			16.95	
Dissolved Oxygen	mg/L			0.05	
pH	Std Unit			5.66	
Temperature	deg C			16.1	
Turbidity	NTU			7.7	
X701-127G					
Metals					
Beryllium	µg/L	0.2U U		0.2U U	
Cadmium	µg/L	6.16 =		4.85 =	
Chromium	µg/L	3.73J J		3U U	
Manganese	µg/L	2240 =		1230 =	
Nickel	µg/L	712 =		476 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	2.58		3.08	
1,1,2,2-Tetrachloroethane	µg/L	26.5		35.5	
1,1,2-Trichloroethane	µg/L	24.4		28.3	
1,1-Dichloroethane	µg/L	1.02		1.08	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-127G					
1,1-Dichloroethene	µg/L	6.28		33.3U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.68J		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.333U		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337U		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.42J		0.37J	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	3.98		4.63	
Chloromethane	µg/L	0.333U		0.333U	
cis-1,2-Dichloroethene	µg/L	340J		740J	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	1.54J		5.37	
Tetrachloroethene	µg/L	22.3		21.1	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	10.1		13.7	
Trichloroethene	µg/L	13200		15700J	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	1.07		33.3U	
Radionuclides					
Americium-241	pCi/L	0.00318U U		-0.00681U U	
Neptunium-237	pCi/L	0.0195U U		-0.0184U U	
Plutonium-238	pCi/L	0.0157U U		0.0375U U	
Plutonium-239/240	pCi/L	0.00523U U		-0.0187U U	
Technetium-99	pCi/L	40 =		53.1 =	
Uranium	µg/L	0.353U U		0.405JU UJ	
Uranium-233/234	pCi/L	0.012U U		0.00186U U	
Uranium-235/236	pCi/L	-0.0113U U		0.00786U U	
Uranium-238	pCi/L	0.119JU UJ		0.135JU UJ	
Other Parameters					
Alkalinity	mg/L	72.5		57 =	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-127G					
Chloride	mg/L	111		122 =	
Dissolved Solids	mg/L	984		1990	
Sulfate	mg/L	410		603 =	
Field Measurements					
Conductivity	µS/cm	1650		1377	
Depth to Water	ft	18.96		19.31	
Dissolved Oxygen	mg/L	1.97		0.97	
pH	Std Unit	5.16		5.66	
Temperature	deg C	12.9		13.9	
Turbidity	NTU	14		6.01	
X701-128G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.81J		0.53J	
1,1,2,2-Tetrachloroethane	µg/L	1.7		1.22	
1,1,2-Trichloroethane	µg/L	7.29		5.35	
1,1-Dichloroethane	µg/L	0.4J		0.333U	
1,1-Dichloroethene	µg/L	3.53		16.7U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.333U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.333U		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337QU		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	1.29		0.9J	
Chloromethane	µg/L	0.333U		0.9J	
cis-1,2-Dichloroethene	µg/L	104J		78.7	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	0.5U		5.68	
Tetrachloroethene	µg/L	11.1		7.5	
Toluene	µg/L	0.333U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-128G					
trans-1,2-Dichloroethene	µg/L	3.13		2.31	
Trichloroethene	µg/L	6970J		5380J	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	1.59		66.6JU	
Radionuclides					
Americium-241	pCi/L	-0.00741U U			
Neptunium-237	pCi/L	-0.000209U U			
Plutonium-238	pCi/L	-0.00413U U			
Plutonium-239/240	pCi/L	0.00413U U			
Technetium-99	pCi/L	14.9 =			
Uranium	µg/L	0.246U U			
Uranium-233/234	pCi/L	0.118JU UJ			
Uranium-235/236	pCi/L	0.0182U U			
Uranium-238	pCi/L	0.0799U U			
Other Parameters					
Alkalinity	mg/L	42		45.7	
Chloride	mg/L	65.2		65.1	
Dissolved Solids	mg/L	372		350	
Sulfate	mg/L	113		113	
Field Measurements					
Conductivity	µS/cm	573		586	
Depth to Water	ft	18.63		20.12	
Dissolved Oxygen	mg/L	1.56		3.24	
pH	Std Unit	5.32		5.41	
Temperature	deg C	12.7		16.1	
Turbidity	NTU	90		21.3	
X701-130G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			666JU	
1,1,2,2-Tetrachloroethane	µg/L			666JU	
1,1,2-Trichloroethane	µg/L			666JU	
1,1-Dichloroethane	µg/L			666JU	
1,1-Dichloroethene	µg/L			666JU	
1,2-Dichlorobenzene	µg/L			666JU	
1,2-Dichloroethane	µg/L			666JU	
1,2-Dimethylbenzene	µg/L			666JU	
1,4-Dichlorobenzene	µg/L			666JU	
2-Butanone	µg/L			3330JU	
4-Methyl-2-pentanone	µg/L			3330JU	
Acetone	µg/L			3490JU	
Benzene	µg/L			666JU	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-130G					
Bromodichloromethane	µg/L			666JU	
Bromoform	µg/L			666JU	
Bromomethane	µg/L			674JU	
Carbon disulfide	µg/L			3330JU	
Carbon tetrachloride	µg/L			666JU	
Chlorobenzene	µg/L			666JU	
Chloroethane	µg/L			666JU	
Chloroform	µg/L			666JU	
Chloromethane	µg/L			666JU	
cis-1,2-Dichloroethene	µg/L			666JU	
Dibromochloromethane	µg/L			666JU	
Ethylbenzene	µg/L			666JU	
m,p-Xylenes	µg/L			1000JU	
Methylene chloride	µg/L			6600J	
Tetrachloroethene	µg/L			666JU	
Toluene	µg/L			666JU	
trans-1,2-Dichloroethene	µg/L			666JU	
Trichloroethene	µg/L			120000J	
Trichlorofluoromethane	µg/L			666JU	
Vinyl chloride	µg/L			666JU	
Radionuclides					
Technetium-99	pCi/L			347 =	
Uranium	µg/L			2.44 =	
Uranium-233/234	pCi/L			3.18 =	
Uranium-235/236	pCi/L			0.197 =	
Uranium-238	pCi/L			0.789 =	
Field Measurements					
Conductivity	µS/cm			1052	
Depth to Water	ft			14.78	
Dissolved Oxygen	mg/L			0.06	
pH	Std Unit			6.08	
Temperature	deg C			16.1	
Turbidity	NTU			53.6	
X701-141G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	
1,1,2-Trichloroethane	µg/L			0.333U	
1,1-Dichloroethane	µg/L			0.333U	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-141G					
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.333U	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			0.333U	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			1.54	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			0.333U	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			0.333U	
Trichloroethene	µg/L			52.2J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			0.333U	
Field Measurements					
Conductivity	µS/cm			595	
Depth to Water	ft			13.46	
Dissolved Oxygen	mg/L			0.63	
pH	Std Unit			6.11	
Temperature	deg C			15.5	
Turbidity	NTU			21	
X701-142G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.61J	
1,1,2,2-Tetrachloroethane	µg/L	2.75		4.88	
1,1,2-Trichloroethane	µg/L	5.19		7.62	
1,1-Dichloroethane	µg/L	0.6J		0.64J	
1,1-Dichloroethene	µg/L	4.6		6.88	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-142G					
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.44J		0.59J	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.333U		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337U		0.337QU	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	0.333U		0.333U	
Chloromethane	µg/L	0.333U		0.333QU	
cis-1,2-Dichloroethene	µg/L	1570		1930	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	1.54J		0.5U	
Tetrachloroethene	µg/L	1.3		2.55	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	22.7		30.7	
Trichloroethene	µg/L	2830		3330	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	14.7		50J	
Field Measurements					
Conductivity	µS/cm	804		363.8	
Depth to Water	ft	7.25		7.77	
Dissolved Oxygen	mg/L	3.91		2.73	
pH	Std Unit	4.97		4.93	
Temperature	deg C	7.7		22.5	
Turbidity	NTU	47.4		75.1	
X701-143G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U	
1,1,2-Trichloroethane	µg/L	0.333U		0.65J	
1,1-Dichloroethane	µg/L	0.333U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-143G					
1,1-Dichloroethene	µg/L	0.333U		3.1	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.333U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.333U		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337U		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	0.333U		0.333U	
Chloromethane	µg/L	0.333U		0.333U	
cis-1,2-Dichloroethene	µg/L	329		783	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	0.5U		0.5U	
Tetrachloroethene	µg/L	0.333U		0.333U	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	7.11		8.94	
Trichloroethene	µg/L	12		136	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	6.49		95.1	
Field Measurements					
Conductivity	µS/cm	694		11.5	
Depth to Water	ft	7.41		9.12	
Dissolved Oxygen	mg/L	4.88		7.76	
pH	Std Unit	6.69		6.79	
Temperature	deg C	8.5		21.4	
Turbidity	NTU	288		31.4	
X701-144G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-144G					
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.42J			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337QU			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	149J			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	1.01J			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	2.39			
Trichloroethene	µg/L	1.67JU			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	34			
Field Measurements					
Conductivity	µS/cm	375.7			
Depth to Water	ft	7.23			
Dissolved Oxygen	mg/L	4.11			
pH	Std Unit	6.18			
Temperature	deg C	7.8			
Turbidity	NTU	34.7			
X701-BW2G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			3.67	
1,1,2,2-Tetrachloroethane	µg/L			0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-BW2G					
1,1,2-Trichloroethane	µg/L			1.99	
1,1-Dichloroethane	µg/L			1.23	
1,1-Dichloroethene	µg/L			0.333U	
1,2-Dichlorobenzene	µg/L			0.333U	
1,2-Dichloroethane	µg/L			0.333U	
1,2-Dimethylbenzene	µg/L			0.333U	
1,4-Dichlorobenzene	µg/L			0.333U	
2-Butanone	µg/L			1.67U	
4-Methyl-2-pentanone	µg/L			1.67U	
Acetone	µg/L			1.74U	
Benzene	µg/L			0.63J	
Bromodichloromethane	µg/L			0.333U	
Bromoform	µg/L			0.333U	
Bromomethane	µg/L			0.337U	
Carbon disulfide	µg/L			1.67U	
Carbon tetrachloride	µg/L			0.333U	
Chlorobenzene	µg/L			0.333U	
Chloroethane	µg/L			0.333U	
Chloroform	µg/L			86	
Chloromethane	µg/L			0.333U	
cis-1,2-Dichloroethene	µg/L			246J	
Dibromochloromethane	µg/L			0.333U	
Ethylbenzene	µg/L			0.333U	
m,p-Xylenes	µg/L			0.5U	
Methylene chloride	µg/L			0.5U	
Tetrachloroethene	µg/L			8.95	
Toluene	µg/L			0.333U	
trans-1,2-Dichloroethene	µg/L			5.7	
Trichloroethene	µg/L			10100J	
Trichlorofluoromethane	µg/L			0.333U	
Vinyl chloride	µg/L			6.62	
Radionuclides					
Technetium-99	pCi/L			585 =	
Uranium	µg/L			31.9 =	
Uranium-233/234	pCi/L			48.4 =	
Uranium-235/236	pCi/L			2.73 =	
Uranium-238	pCi/L			10.3 =	
Other Parameters					
Alkalinity	mg/L			293	
Chloride	mg/L			24.5	
Dissolved Solids	mg/L			588	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-BW2G					
Sulfate	mg/L			156	
Field Measurements					
Conductivity	µS/cm			913	
Depth to Water	ft			15.31	
Dissolved Oxygen	mg/L			0.06	
pH	Std Unit			6.44	
Temperature	deg C			17.3	
Turbidity	NTU			0.45	
X701-BW3G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L			0.333U U	
1,1,2,2-Tetrachloroethane	µg/L			0.333U U	
1,1,2-Trichloroethane	µg/L			0.333U U	
1,1-Dichloroethane	µg/L			0.333U U	
1,1-Dichloroethene	µg/L			0.8J J	
1,2-Dichlorobenzene	µg/L			0.333U U	
1,2-Dichloroethane	µg/L			0.333U U	
1,2-Dimethylbenzene	µg/L			0.333U U	
1,4-Dichlorobenzene	µg/L			0.333U U	
2-Butanone	µg/L			1.67U U	
4-Methyl-2-pentanone	µg/L			1.67U U	
Acetone	µg/L			1.74U U	
Benzene	µg/L			0.333U U	
Bromodichloromethane	µg/L			0.333U U	
Bromoform	µg/L			0.333U U	
Bromomethane	µg/L			0.337U U	
Carbon disulfide	µg/L			1.67U U	
Carbon tetrachloride	µg/L			0.333U U	
Chlorobenzene	µg/L			0.333U U	
Chloroethane	µg/L			0.333U U	
Chloroform	µg/L			0.333U U	
Chloromethane	µg/L			0.333U U	
cis-1,2-Dichloroethene	µg/L			45.9 =	
Dibromochloromethane	µg/L			0.333U U	
Ethylbenzene	µg/L			0.333U U	
m,p-Xylenes	µg/L			0.5U U	
Methylene chloride	µg/L			0.5U U	
Tetrachloroethene	µg/L			0.333U U	
Toluene	µg/L			0.333U U	
trans-1,2-Dichloroethene	µg/L			0.333U U	
Trichloroethene	µg/L			80.9J J	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-BW3G					
Trichlorofluoromethane	µg/L			0.333U U	
Vinyl chloride	µg/L			4.95J J	
Radionuclides					
Technetium-99	pCi/L			49 =	
Uranium	µg/L			0.108U U	
Uranium-233/234	pCi/L			0.0214U U	
Uranium-235/236	pCi/L			0.00267U U	
Uranium-238	pCi/L			0.0359U U	
Field Measurements					
Conductivity	µS/cm			1197	
Depth to Water	ft			11.28	
Dissolved Oxygen	mg/L			0.1	
pH	Std Unit			5.69	
Temperature	deg C			16.7	
Turbidity	NTU			6.62	
X701-BW4G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U	
1,1-Dichloroethane	µg/L	0.333U		0.333U	
1,1-Dichloroethene	µg/L	0.333U		0.333U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.333U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.333U		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337U		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	0.333U		0.333U	
Chloromethane	µg/L	0.333U		0.333U	
cis-1,2-Dichloroethene	µg/L	2.64		6.3	
Dibromochloromethane	µg/L	0.333U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-BW4G					
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	4.59J		0.5U	
Tetrachloroethene	µg/L	0.333U		0.333U	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	0.333U		0.333U	
Trichloroethene	µg/L	0.88J		1.4	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	0.333U		0.333U	
Radionuclides					
Technetium-99	pCi/L	51.9			
Uranium	µg/L	0.0695U			
Uranium-233/234	pCi/L	0.0185U			
Uranium-235/236	pCi/L	0.0243U			
Uranium-238	pCi/L	0.0196U			
Other Parameters					
Alkalinity	mg/L	49.5		50.5	
Chloride	mg/L	44.5		45.1	
Dissolved Solids	mg/L	476		473	
Sulfate	mg/L	226		210	
Field Measurements					
Conductivity	µS/cm	761		744	
Depth to Water	ft	11.75		10.6	
Dissolved Oxygen	mg/L	0.95		0.39	
pH	Std Unit	6.05		5.86	
Temperature	deg C	14.7		15	
Turbidity	NTU	2.55		1.67	
X701-EW121G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	66.6U		33.3U *U*	
1,1,2,2-Tetrachloroethane	µg/L	66.6U		33.3U *U*	
1,1,2-Trichloroethane	µg/L	66.6U		33.3U *UJ*	
1,1-Dichloroethane	µg/L	66.6U		33.3U *U*	
1,1-Dichloroethene	µg/L	66.6U		33.3U *U*	
1,2-Dichlorobenzene	µg/L	66.6U		33.3U *U*	
1,2-Dichloroethane	µg/L	66.6U		33.3U *U*	
1,2-Dimethylbenzene	µg/L	66.6U		33.3U *U*	
1,4-Dichlorobenzene	µg/L	66.6U		33.3U *U*	
2-Butanone	µg/L	333U		167U *U*	
4-Methyl-2-pentanone	µg/L	333U		167U *U*	
Acetone	µg/L	414J		174U *U*	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-EW121G					
Benzene	µg/L	66.6U		33.3U U	
Bromodichloromethane	µg/L	66.6U		33.3U U	
Bromoform	µg/L	66.6U		33.3U U	
Bromomethane	µg/L	67.4U		33.7U U	
Carbon disulfide	µg/L	333U		167U U	
Carbon tetrachloride	µg/L	66.6U		33.3U U	
Chlorobenzene	µg/L	66.6U		33.3U UJ	
Chloroethane	µg/L	66.6U		33.3U U	
Chloroform	µg/L	66.6U		33.3U U	
Chloromethane	µg/L	66.6U		33.3U U	
cis-1,2-Dichloroethene	µg/L	1230		387 J	
Dibromochloromethane	µg/L	66.6U		33.3U U	
Ethylbenzene	µg/L	66.6U		33.3U U	
m,p-Xylenes	µg/L	100U		50U U	
Methylene chloride	µg/L	304J		98J J	
Tetrachloroethene	µg/L	66.6U		34J J	
Toluene	µg/L	66.6U		33.3U UJ	
trans-1,2-Dichloroethene	µg/L	66.6U		39J J	
Trichloroethene	µg/L	18200		17000J J	
Trichlorofluoromethane	µg/L	66.6U		33.3U U	
Vinyl chloride	µg/L	66.6U		33.3U U	
Radionuclides					
Technetium-99	pCi/L	41.4 =		52.8 =	
Uranium	µg/L	0.499 J		0.316JU UJ	
Uranium-233/234	pCi/L	0.157 UJ		0.159 =	
Uranium-235/236	pCi/L	0.0381JU UJ		0.0167JU U	
Uranium-238	pCi/L	0.162 =		0.104JU UJ	
Other Parameters					
Alkalinity	mg/L	145	140 =	147 =	134*
Chloride	mg/L	157	152 =	157 =	178
Dissolved Solids	mg/L	1270	1370 =	1320 =	1420
Sulfate	mg/L	613	620 =	656 =	687
Field Measurements					
Conductivity	µS/cm	1992	1963	1985	2445
Depth to Water	ft	13.94	13.25	13.8	14.7
Dissolved Oxygen	mg/L	4.97	4.19	2.64	1.91
pH	Std Unit	5.59	5.69	5.63	5.58
Temperature	deg C	14.8	15.3	16.2	14.8
Turbidity	NTU	5.27	5.89	10.7	1.63

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-EW122G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	167U		23.8 =	
1,1,2,2-Tetrachloroethane	µg/L	167U		115 =	
1,1,2-Trichloroethane	µg/L	167U		37.9 =	
1,1-Dichloroethane	µg/L	167U		3.33U U	
1,1-Dichloroethene	µg/L	167U		3.33U U	
1,2-Dichlorobenzene	µg/L	167U		3.33U U	
1,2-Dichloroethane	µg/L	167U		3.33U U	
1,2-Dimethylbenzene	µg/L	167U		3.33U U	
1,4-Dichlorobenzene	µg/L	167U		3.33U U	
2-Butanone	µg/L	834U		16.7U U	
4-Methyl-2-pentanone	µg/L	834U		16.7U U	
Acetone	µg/L	872U		153 J	
Benzene	µg/L	167U		3.33U U	
Bromodichloromethane	µg/L	167U		3.33U U	
Bromoform	µg/L	167U		3.33U U	
Bromomethane	µg/L	169U		3.37U U	
Carbon disulfide	µg/L	834U		16.7U U	
Carbon tetrachloride	µg/L	167U		3.5J J	
Chlorobenzene	µg/L	167U		3.33U U	
Chloroethane	µg/L	167U		3.33U U	
Chloroform	µg/L	167U		12.2 =	
Chloromethane	µg/L	167U		3.33U U	
cis-1,2-Dichloroethene	µg/L	680		538 =	
Dibromochloromethane	µg/L	167U		3.33U U	
Ethylbenzene	µg/L	167U		3.33U U	
m,p-Xylenes	µg/L	250U		5U U	
Methylene chloride	µg/L	955J		11.6J J	
Tetrachloroethene	µg/L	200J		188 =	
Toluene	µg/L	167U		3.33U U	
trans-1,2-Dichloroethene	µg/L	167U		70.6 =	
Trichloroethene	µg/L	39100J		45500J J	
Trichlorofluoromethane	µg/L	167U		3.33U U	
Vinyl chloride	µg/L	167U		3.33U U	
Radionuclides					
Technetium-99	pCi/L	141 =		128 =	
Uranium	µg/L	1.06 J		0.966 =	
Uranium-233/234	pCi/L	0.327 J		0.324 =	
Uranium-235/236	pCi/L	0.0502U U		0.0237U U	
Uranium-238	pCi/L	0.348 =		0.321 =	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-EW122G					
Other Parameters					
Alkalinity	mg/L	161	126 = 129 =	177 =	209* 156*
Chloride	mg/L	97	125 = 126 =	121 =	105 109
Dissolved Solids	mg/L	3100	2560 = 2820 =	3280 =	2940 3340
Sulfate	mg/L	1640	1780 = 1810 =	2170 =	1970 1970
Field Measurements					
Conductivity	µS/cm	4020	3829	4268	3008
Depth to Water	ft	15.3	14.62	15.18	15.93
Dissolved Oxygen	mg/L	0	0.29	0.07	0.51
pH	Std Unit	5.26	4.42	5.35	5.32
Temperature	deg C	15.3	16.2	16	15.2
Turbidity	NTU	3.61	3.38	1.37	0.18
X701-IRMPZ03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U		0.333U U	
1,1-Dichloroethane	µg/L	0.333U		0.333U U	
1,1-Dichloroethene	µg/L	1.57		0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		67.2 UJ	
Benzene	µg/L	0.333U		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337U		0.337U U	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	0.333U		0.333U U	
Chloromethane	µg/L	0.333U		0.333U U	
cis-1,2-Dichloroethene	µg/L	406		834 =	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	0.5U		5.26 UJ	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-IRMPZ03G					
Tetrachloroethene	µg/L	0.333U		0.333U U	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	6.24		9.74 =	
Trichloroethene	µg/L	385		704 =	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	1.74		6.66U U	
Field Measurements					
Conductivity	µS/cm	1685		927	
Depth to Water	ft	6.64		7.53	
Dissolved Oxygen	mg/L	5.99		3.25	
pH	Std Unit	6.52		5.93	
Temperature	deg C	8.3		19.2	
Turbidity	NTU	720		124	
X701-IRMPZ05G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	1.32			
1,1,2-Trichloroethane	µg/L	2.65			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	4.58			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	1130			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-IRMPZ05G					
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.96J			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	9.03			
Trichloroethene	µg/L	1030			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	1.75			
Field Measurements					
Conductivity	µS/cm	724			
Depth to Water	ft	7.44			
Dissolved Oxygen	mg/L	3.92			
pH	Std Unit	6.61			
Temperature	deg C	8.3			
Turbidity	NTU	52.6			
X701-IRMPZ06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.67U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	1.67U		0.333U U	
1,1,2-Trichloroethane	µg/L	1.67U		0.333U U	
1,1-Dichloroethane	µg/L	1.67U		0.333U U	
1,1-Dichloroethene	µg/L	1.67U		0.333U UJ	
1,2-Dichlorobenzene	µg/L	1.67U		0.333U U	
1,2-Dichloroethane	µg/L	1.67U		0.333U U	
1,2-Dimethylbenzene	µg/L	1.67U		0.333U U	
1,4-Dichlorobenzene	µg/L	1.67U		0.333U U	
2-Butanone	µg/L	8.34U		1.67U U	
4-Methyl-2-pentanone	µg/L	8.34U		1.67U U	
Acetone	µg/L	8.72U		1.74U U	
Benzene	µg/L	1.67U		0.333U U	
Bromodichloromethane	µg/L	1.67U		0.333U U	
Bromoform	µg/L	1.67U		0.333U U	
Bromomethane	µg/L	1.69U		0.337U U	
Carbon disulfide	µg/L	11.7J		1.67U U	
Carbon tetrachloride	µg/L	1.67U		0.333U U	
Chlorobenzene	µg/L	1.67U		0.333U U	
Chloroethane	µg/L	1.67U		0.333U U	
Chloroform	µg/L	1.67U		0.333U U	
Chloromethane	µg/L	1.67U		0.333QU UJ	
cis-1,2-Dichloroethene	µg/L	258		335 =	
Dibromochloromethane	µg/L	1.67U		0.333U U	
Ethylbenzene	µg/L	1.67U		0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-IRMPZ06G					
m,p-Xylenes	µg/L	2.5U		0.5U U	
Methylene chloride	µg/L	6.85J		0.5U U	
Tetrachloroethene	µg/L	1.67U		0.333U U	
Toluene	µg/L	1.67U		0.333U U	
trans-1,2-Dichloroethene	µg/L	17.7		22.7 =	
Trichloroethene	µg/L	21.1		15.1 =	
Trichlorofluoromethane	µg/L	1.67U		0.333U U	
Vinyl chloride	µg/L	4.1J		23 J	
Radionuclides					
Technetium-99	pCi/L	0.337U U			
Uranium	µg/L	2.58 =			
Uranium-233/234	pCi/L	1.03 =			
Uranium-235/236	pCi/L	0.0168U U			
Uranium-238	pCi/L	0.864 =			
Field Measurements					
Conductivity	µS/cm	613		635	
Depth to Water	ft	7.82		8.16	
Dissolved Oxygen	mg/L	3.66		4.51	
pH	Std Unit	6.35		6.12	
Temperature	deg C	8		22.1	
Turbidity	NTU	5.18		4.75	
X701-IRMPZ07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	55.7			
1,1,2-Trichloroethane	µg/L	36			
1,1-Dichloroethane	µg/L	1.53			
1,1-Dichloroethene	µg/L	21.6			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	1.2			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.36J			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-IRMPZ07G					
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	4.79			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	3020			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	48.9			
Toluene	µg/L	1.02			
trans-1,2-Dichloroethene	µg/L	57.2			
Trichloroethene	µg/L	28100			
Trichlorofluoromethane	µg/L	0.333U			
Vinyl chloride	µg/L	410J			
Field Measurements					
Conductivity	µS/cm	1399			
Depth to Water	ft	17.69			
Dissolved Oxygen	mg/L	3.85			
pH	Std Unit	5.39			
Temperature	deg C	16			
Turbidity	NTU	4.16			
X701-IRMPZ08G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	3.33U		3.33JU UJ	
1,1,2,2-Tetrachloroethane	µg/L	3.33U		3.33JU UJ	
1,1,2-Trichloroethane	µg/L	3.33U		3.33JU UJ	
1,1-Dichloroethane	µg/L	3.33U		3.33JU UJ	
1,1-Dichloroethene	µg/L	3.33U		3.33JU UJ	
1,2-Dichlorobenzene	µg/L	3.33U		3.33JU UJ	
1,2-Dichloroethane	µg/L	3.33U		3.33JU UJ	
1,2-Dimethylbenzene	µg/L	3.33U		3.33JU UJ	
1,4-Dichlorobenzene	µg/L	3.33U		3.33JU UJ	
2-Butanone	µg/L	16.7U		16.7JU UJ	
4-Methyl-2-pentanone	µg/L	16.7U		16.7JU UJ	
Acetone	µg/L	17.4U		17.4JU UJ	
Benzene	µg/L	3.33U		3.33JU UJ	
Bromodichloromethane	µg/L	3.33U		3.33JU UJ	
Bromoform	µg/L	3.33U		3.33JU UJ	
Bromomethane	µg/L	3.37U		3.37JU UJ	
Carbon disulfide	µg/L	16.7U		16.7JU UJ	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-IRMPZ08G					
Carbon tetrachloride	µg/L	3.33U		3.33JU UJ	
Chlorobenzene	µg/L	3.33U		3.33JU UJ	
Chloroethane	µg/L	3.33U		3.33JU UJ	
Chloroform	µg/L	3.33U		3.33JU UJ	
Chloromethane	µg/L	3.33U		3.33JU UJ	
cis-1,2-Dichloroethene	µg/L	281		339J J	
Dibromochloromethane	µg/L	3.33U		3.33JU UJ	
Ethylbenzene	µg/L	3.33U		3.33JU UJ	
m,p-Xylenes	µg/L	5U		5JU UJ	
Methylene chloride	µg/L	14.3J		30.3J J	
Tetrachloroethene	µg/L	3.33U		3.33JU UJ	
Toluene	µg/L	3.33U		3.33JU UJ	
trans-1,2-Dichloroethene	µg/L	3.33U		3.33JU UJ	
Trichloroethene	µg/L	452		469J J	
Trichlorofluoromethane	µg/L	3.33U		3.33JU UJ	
Vinyl chloride	µg/L	3.33U		3.33JU UJ	
Field Measurements					
Conductivity	µS/cm	1018		912	
Depth to Water	ft	4.94		4.74	
Dissolved Oxygen	mg/L	1.45		0.31	
pH	Std Unit	6.59		6.43	
Temperature	deg C	9.3		21.4	
Turbidity	NTU	9.43		1.25	
X701-TC01G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	61.8		54.3 =	
1,1,2,2-Tetrachloroethane	µg/L	3.62		2.59 =	
1,1,2-Trichloroethane	µg/L	8.53		8.11 =	
1,1-Dichloroethane	µg/L	6.7		5.04 =	
1,1-Dichloroethene	µg/L	46.3		133JU UJ	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		2.23 =	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		1.74U U	
Benzene	µg/L	0.49J		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.64J		135JU UJ	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC01G					
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	0.75J		1.19 =	
Chloromethane	µg/L	7.73		133JU UJ	
cis-1,2-Dichloroethene	µg/L	4820J		4690J J	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	0.59J		0.5U U	
Tetrachloroethene	µg/L	15		15.7 =	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	96.9		133JU UJ	
Trichloroethene	µg/L	6780J		8400J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	132J		133JU UJ	
Radionuclides					
Americium-241	pCi/L	0.0474U U		0.0175U U	
Neptunium-237	pCi/L	0.0432U U		0.0447U U	
Plutonium-238	pCi/L	-0.00534U U		0.00383U U	
Plutonium-239/240	pCi/L	0.016U U		-0.00767U U	
Technetium-99	pCi/L	157 =		114 =	
Uranium	µg/L	8.1 =		6.45 =	
Uranium-233/234	pCi/L	4.24 =		3.79 =	
Uranium-235/236	pCi/L	0.278 =		0.126U U	
Uranium-238	pCi/L	2.68 =		2.15 =	
Other Parameters					
Alkalinity	mg/L	346		330 =	
Chloride	mg/L	16.1		14.3 =	
Dissolved Solids	mg/L	1950		1960 =	
Sulfate	mg/L	897		903 =	
Field Measurements					
Conductivity	µS/cm	2555		2843	
Depth to Water	ft	14.02		13.26	
Dissolved Oxygen	mg/L	0		0.04	
pH	Std Unit	6		6.22	
Temperature	deg C	13.4		16.4	
Turbidity	NTU	10.3		6.03	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	47.7		39.2 =	
1,1,2,2-Tetrachloroethane	µg/L	17.7		13.4 =	
1,1,2-Trichloroethane	µg/L	14.8		9.13 =	
1,1-Dichloroethane	µg/L	5.57		4.25 =	
1,1-Dichloroethene	µg/L	27		33.3U UJ	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		2.84 =	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		1.74U U	
Benzene	µg/L	0.5J		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.63J		33.7U U	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	1.54		1.49 =	
Chloromethane	µg/L	10.2		33.3U UJ	
cis-1,2-Dichloroethene	µg/L	4270J		5000 =	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	0.85J		0.5U U	
Tetrachloroethene	µg/L	36.4		29.5 =	
Toluene	µg/L	0.34J		0.333U U	
trans-1,2-Dichloroethene	µg/L	205J		206 =	
Trichloroethene	µg/L	14300J		17300J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	167JU		33.3U UJ	
Radionuclides					
Americium-241	pCi/L	0.00415U U		0.0119U U	
Neptunium-237	pCi/L	0.0233U U		-0.0393U U	
Plutonium-238	pCi/L	0.0103U U		-0.00759U U	
Plutonium-239/240	pCi/L	0.0205U U		0.0000000019U U	
Technetium-99	pCi/L	387 =		337 =	
Uranium	µg/L	6.59 J		4.01 J	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC03G					
Uranium-233/234	pCi/L	2.27 =		1.69 =	
Uranium-235/236	pCi/L	0.189 =		0.168JU UJ	
Uranium-238	pCi/L	2.19 J		1.32 =	
Other Parameters					
Alkalinity	mg/L	346		339 =	
Chloride	mg/L	24.7		22.3 =	
Dissolved Solids	mg/L	2470		2260 =	
Sulfate	mg/L	1220		1160 =	
Field Measurements					
Conductivity	µS/cm	3106		3075	
Depth to Water	ft	15.28		14.56	
Dissolved Oxygen	mg/L	0.11		0	
pH	Std Unit	5.79		6.09	
Temperature	deg C	12.9		15.9	
Turbidity	NTU	88.2		46	
X701-TC05G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	54		51.9 =	
1,1,2,2-Tetrachloroethane	µg/L	23.4		33.3JU UJ	
1,1,2-Trichloroethane	µg/L	5.25		5.14 =	
1,1-Dichloroethane	µg/L	6.42		6.75 =	
1,1-Dichloroethene	µg/L	0.333U		0.99J J	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.81J J	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	137		174JU UJ	
Benzene	µg/L	0.333U		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.91J		0.333U U	
Bromomethane	µg/L	1.51		2.29 =	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	2.57		5.68 =	
Chloromethane	µg/L	29.2		26.8 =	
cis-1,2-Dichloroethene	µg/L	1680		1820J J	
Dibromochloromethane	µg/L	0.333U		0.57J J	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC05G					
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	0.5U		9.94 UJ	
Tetrachloroethene	µg/L	14.8		33.3JU UJ	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	280J		341J J	
Trichloroethene	µg/L	5270		6490J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	0.333U		0.333U U	
Radionuclides					
Americium-241	pCi/L	-0.0149U UJ		-0.0149U U	
Neptunium-237	pCi/L	0.0735U UJ		-0.00278U U	
Plutonium-238	pCi/L	-0.018U U		-0.0237U U	
Plutonium-239/240	pCi/L	-0.00902U U		-0.0296U U	
Technetium-99	pCi/L	439 =		385 =	
Uranium	µg/L	45.1 =		47.5 =	
Uranium-233/234	pCi/L	18.6 =		18.4 =	
Uranium-235/236	pCi/L	1.07 =		1.08 =	
Uranium-238	pCi/L	15 =		15.8 =	
Other Parameters					
Alkalinity	mg/L	34.5		29.5 =	
Chloride	mg/L	54.8		51.4 =	
Dissolved Solids	mg/L	6860		6380 =	
Sulfate	mg/L	3590		3530 =	
Field Measurements					
Conductivity	µS/cm	7908		7436	
Depth to Water	ft	14.76		14.28	
Dissolved Oxygen	mg/L	0.16		0.24	
pH	Std Unit	4.69		4.67	
Temperature	deg C	15.7		16.6	
Turbidity	NTU	3.61		10.7	
X701-TC10G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	3.34		3.25	
1,1,2,2-Tetrachloroethane	µg/L	0.69J		0.6J	
1,1,2-Trichloroethane	µg/L	4.68		5.07	
1,1-Dichloroethane	µg/L	1.92		1.76	
1,1-Dichloroethene	µg/L	8.56		33.3JU	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.36J		0.39J	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC10G					
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	1.67U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	1.74U		1.74U	
Benzene	µg/L	0.36J		0.333U	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337U		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.333U		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	1.57		1.49	
Chloromethane	µg/L	0.333U		0.333U	
cis-1,2-Dichloroethene	µg/L	660J		866J	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	0.5U		3.35J	
Tetrachloroethene	µg/L	9.25		8.13	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	10.8		9.51	
Trichloroethene	µg/L	4490		5720J	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	10.1		15	
Radionuclides					
Americium-241	pCi/L	0.118U U		0.00744U U	
Neptunium-237	pCi/L	0.0851U U		-0.0266U U	
Plutonium-238	pCi/L	0.00219U U		-0.0045U U	
Plutonium-239/240	pCi/L	0.0379U U		0.0315U U	
Technetium-99	pCi/L	48.1 =		41.2 =	
Uranium	µg/L	2.03 =		1.72 =	
Uranium-233/234	pCi/L	0.874 =		0.532 =	
Uranium-235/236	pCi/L	0.0911U U		0.0288U U	
Uranium-238	pCi/L	0.669 =		0.574 =	
Other Parameters					
Alkalinity	mg/L	331		325	
Chloride	mg/L	18.4		12.5	
Dissolved Solids	mg/L	1110		1050	
Sulfate	mg/L	475		410	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC10G					
Field Measurements					
Conductivity	µS/cm	1587		1483	
Depth to Water	ft	17.85		16.78	
Dissolved Oxygen	mg/L	0.33		0.09	
pH	Std Unit	5.85		5.99	
Temperature	deg C	13.9		16.8	
Turbidity	NTU	275		29.1	
X701-TC17G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	15.2		12.7	
1,1,2,2-Tetrachloroethane	µg/L	9.3		10.2	
1,1,2-Trichloroethane	µg/L	6.53		6.17	
1,1-Dichloroethane	µg/L	1.11		0.94J	
1,1-Dichloroethene	µg/L	4.59		0.333U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.333U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	7.56		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	77.3		111	
Benzene	µg/L	1.39		1.21	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	0.333U		0.333U	
Bromomethane	µg/L	0.337U		0.337U	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.37J		0.333U	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	17.1		15.7	
Chloromethane	µg/L	14.9		18.8	
cis-1,2-Dichloroethene	µg/L	165		151J	
Dibromochloromethane	µg/L	0.333U		0.333U	
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	1.12J		4.25J	
Tetrachloroethene	µg/L	30.4		22.7	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	9.26		8.89	
Trichloroethene	µg/L	8220		5580J	
Trichlorofluoromethane	µg/L	0.333U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC17G					
Vinyl chloride	µg/L	1.06		1.34	
Radionuclides					
Americium-241	pCi/L	0.259U U		0.0183U U	
Neptunium-237	pCi/L	-0.00499U U		-0.016U U	
Plutonium-238	pCi/L	-0.033U UJ		0.0289U U	
Plutonium-239/240	pCi/L	0U UJ		0.000000001920U U	
Technetium-99	pCi/L	163 =		144 =	
Uranium	µg/L	33.3 J		31.9 =	
Uranium-233/234	pCi/L	12.2 =		12.8 J	
Uranium-235/236	pCi/L	0.659 J		0.426 =	
Uranium-238	pCi/L	11.1 =		10.6 =	
Other Parameters					
Alkalinity	mg/L	1480		1360	
Chloride	mg/L	63.5		59.9	
Dissolved Solids	mg/L	10100		9220	
Sulfate	mg/L	4950		3550	
Field Measurements					
Conductivity	µS/cm	11422		10075	
Depth to Water	ft	17.28		16.18	
Dissolved Oxygen	mg/L	0.52		0.88	
pH	Std Unit	6.14		6.24	
Temperature	deg C	14.1		16.2	
Turbidity	NTU	17.5		7.01	
X701-TC22G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	12	12.2	17.8 =	
1,1,2,2-Tetrachloroethane	µg/L	12.6	12.2	666JU UJ	
1,1,2-Trichloroethane	µg/L	17.7	17.5	19.3 =	
1,1-Dichloroethane	µg/L	2.76	2.68	2.75 =	
1,1-Dichloroethene	µg/L	5.62	5.51	7.74 =	
1,2-Dichlorobenzene	µg/L	0.333U	0.333U	0.333U U	
1,2-Dichloroethane	µg/L	0.53J	0.333U	0.54J J	
1,2-Dimethylbenzene	µg/L	0.333U	0.333U	0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U	0.333U	0.333U U	
2-Butanone	µg/L	1.67U	1.67U	1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U	1.67U	1.67U U	
Acetone	µg/L	1.74U	1.74U	3490JU UJ	
Benzene	µg/L	0.6J	0.57J	0.333U U	
Bromodichloromethane	µg/L	0.333U	0.333U	0.333U U	
Bromoform	µg/L	0.333U	0.333U	0.333U U	
Bromomethane	µg/L	0.337U	0.337U	0.337U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC22G					
Carbon disulfide	µg/L	1.67U	1.67U	1.67U U	
Carbon tetrachloride	µg/L	0.76J	0.75J	1.44 =	
Chlorobenzene	µg/L	0.333U	0.333U	0.333U U	
Chloroethane	µg/L	0.333U	0.333U	0.333U U	
Chloroform	µg/L	3.66	3.63	4.93 =	
Chloromethane	µg/L	4.5	4.42	3.38 =	
cis-1,2-Dichloroethene	µg/L	410J	400J	666JU UJ	
Dibromochloromethane	µg/L	0.333U	0.333U	0.333U U	
Ethylbenzene	µg/L	0.333U	0.333U	0.333U U	
m,p-Xylenes	µg/L	0.5U	0.5U	0.5U U	
Methylene chloride	µg/L	0.5U	0.5U	7.29 UJ	
Tetrachloroethene	µg/L	91.9	88.6	666JU UJ	
Toluene	µg/L	0.41J	0.38J	0.49J J	
trans-1,2-Dichloroethene	µg/L	28.4	27.5	23 =	
Trichloroethene	µg/L	17500	15200	26600J J	
Trichlorofluoromethane	µg/L	0.333U	0.333U	0.333U U	
Vinyl chloride	µg/L	4.99	4.74	4.26 =	
Radionuclides					
Americium-241	pCi/L	0.103U U	0.0332U U	-0.00495U U	
Neptunium-237	pCi/L	-0.0515U U	-0.0135U U	0.0833U U	
Plutonium-238	pCi/L	0.01U U	0.0116U U	0.0483U U	
Plutonium-239/240	pCi/L	0U U	0.0298U U	-0.0193U U	
Technetium-99	pCi/L	86.6 J	80.2 J	86.5 =	
Uranium	µg/L	1.94 =	2.06 J	1.68 =	
Uranium-233/234	pCi/L	0.746 =	0.775 =	0.584 =	
Uranium-235/236	pCi/L	0.0628U U	0.0913JU UJ	0.0445U U	
Uranium-238	pCi/L	0.642 =	0.68 =	0.559 =	
Other Parameters					
Alkalinity	mg/L	374	371	338 =	
Chloride	mg/L	33.7	38.3	32.2 =	
Dissolved Solids	mg/L	2410	2590	2160 =	
Sulfate	mg/L	1260	1180	1130 =	
Field Measurements					
Conductivity	µS/cm	3103		2887	
Depth to Water	ft	15.71		14.98	
Dissolved Oxygen	mg/L	0		0	
pH	Std Unit	5.65		5.78	
Temperature	deg C	14.3		16	
Turbidity	NTU	3.07		1.68	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC28G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	68.9		60 =	
1,1,2,2-Tetrachloroethane	µg/L	37		27.6 =	
1,1,2-Trichloroethane	µg/L	17.2		12.8 =	
1,1-Dichloroethane	µg/L	2.93		2.14 =	
1,1-Dichloroethene	µg/L	12.9		12 =	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.65J		0.44J J	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		1.74U U	
Benzene	µg/L	0.89J		0.64J J	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337QU		0.44J J	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	8.36		7.59 =	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	22.3		20 =	
Chloromethane	µg/L	5.4		5.45 =	
cis-1,2-Dichloroethene	µg/L	630J		560J J	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.35J J	
m,p-Xylenes	µg/L	1.33J		0.99J J	
Methylene chloride	µg/L	1.06J		0.5U U	
Tetrachloroethene	µg/L	333JU		333JU UJ	
Toluene	µg/L	1.44		1.03 =	
trans-1,2-Dichloroethene	µg/L	42.1		32.3 =	
Trichloroethene	µg/L	58200J		66400J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	2.63		3.57 =	
Radionuclides					
Americium-241	pCi/L	0.0298U UJ		0.0206U U	
Neptunium-237	pCi/L	0.0481U UJ		-0.00879U U	
Plutonium-238	pCi/L	-0.0156U U		-0.00465U U	
Plutonium-239/240	pCi/L	0.00781U U		-0.0093U U	
Technetium-99	pCi/L	143 =		135 =	
Uranium	µg/L	6.1 J		8.04 J	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC28G					
Uranium-233/234	pCi/L	2.43 =		3.08 =	
Uranium-235/236	pCi/L	0.119JU UJ		0.22JU UJ	
Uranium-238	pCi/L	2.03 =		2.67 =	
Other Parameters					
Alkalinity	mg/L	601		598 =	
Chloride	mg/L	65.4		63.8 =	
Dissolved Solids	mg/L	3140		3380 =	
Sulfate	mg/L	1540		1680 =	
Field Measurements					
Conductivity	µS/cm	4283		4319	
Depth to Water	ft	15.15		14.62	
Dissolved Oxygen	mg/L	0		0	
pH	Std Unit	5.96		6.09	
Temperature	deg C	15		15.1	
Turbidity	NTU	36.4		9.38	
X701-TC48G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	14.2		11.1	
1,1,2,2-Tetrachloroethane	µg/L	44.5		43.7	
1,1,2-Trichloroethane	µg/L	18.8		13.4	
1,1-Dichloroethane	µg/L	2		1.85	
1,1-Dichloroethene	µg/L	0.333U		0.333U	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U	
1,2-Dichloroethane	µg/L	0.52J		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U	
2-Butanone	µg/L	27.6		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U	
Acetone	µg/L	205		247	
Benzene	µg/L	1.15		0.98J	
Bromodichloromethane	µg/L	0.333U		0.333U	
Bromoform	µg/L	1.47		0.41J	
Bromomethane	µg/L	0.337U		0.99J	
Carbon disulfide	µg/L	1.67U		1.67U	
Carbon tetrachloride	µg/L	0.78J		0.39J	
Chlorobenzene	µg/L	0.333U		0.333U	
Chloroethane	µg/L	0.333U		0.333U	
Chloroform	µg/L	9.94		8.91	
Chloromethane	µg/L	10.6		11.9	
cis-1,2-Dichloroethene	µg/L	167U		89J	
Dibromochloromethane	µg/L	0.333U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC48G					
Ethylbenzene	µg/L	0.333U		0.333U	
m,p-Xylenes	µg/L	0.5U		0.5U	
Methylene chloride	µg/L	1.88J		1.72J	
Tetrachloroethene	µg/L	47.5		14.1	
Toluene	µg/L	0.333U		0.333U	
trans-1,2-Dichloroethene	µg/L	15		11.9	
Trichloroethene	µg/L	9550		4400	
Trichlorofluoromethane	µg/L	0.333U		0.333U	
Vinyl chloride	µg/L	0.333U		0.333U	
Radionuclides					
Americium-241	pCi/L	-0.167U U		-0.0205U UJ	
Neptunium-237	pCi/L	0U UJ		0.127U UJ	
Plutonium-238	pCi/L	0.00899U U		-0.0377U U	
Plutonium-239/240	pCi/L	0.0449U U		-0.0471U U	
Technetium-99	pCi/L	232 =		231 =	
Uranium	µg/L	40.1 =		59 J	
Uranium-233/234	pCi/L	15.2 =		20.3 =	
Uranium-235/236	pCi/L	0.72 =		0.842 =	
Uranium-238	pCi/L	13.4 =		19.7 J	
Other Parameters					
Alkalinity	mg/L	1730		2000	
Chloride	mg/L	96.6		154	
Dissolved Solids	mg/L	11300		12600	
Sulfate	mg/L	5130		5520	
Field Measurements					
Conductivity	µS/cm	12538		13136	
Depth to Water	ft	17.3		16.63	
Dissolved Oxygen	mg/L	0.08		0.03	
pH	Std Unit	5.99		6.1	
Temperature	deg C	13.2		16.5	
Turbidity	NTU	6.95		7.09	
X701-TC54G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	62.6		36.4 = 34.6 =	
1,1,2,2-Tetrachloroethane	µg/L	333U		666JU UJ 666JU UJ	
1,1,2-Trichloroethane	µg/L	32		24.1 = 23.6 =	
1,1-Dichloroethane	µg/L	3.08		2.16 = 2.03 =	
1,1-Dichloroethene	µg/L	0.333U		2.87 = 2.98 =	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U 0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.53J J 0.54J J	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U 0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC54G					
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U 0.333U U	
2-Butanone	µg/L	1.67U		1.67U U 1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U 1.67U U	
Acetone	µg/L	139		3490JU UJ 3490JU UJ	
Benzene	µg/L	0.85J		0.333U U 0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U 0.333U U	
Bromoform	µg/L	1.6		0.333U U 0.333U U	
Bromomethane	µg/L	0.337U		0.337U U 0.337U U	
Carbon disulfide	µg/L	1.67U		1.67U U 1.67U U	
Carbon tetrachloride	µg/L	7.56		3.82 = 3.64 =	
Chlorobenzene	µg/L	0.333U		0.333U U 0.333U U	
Chloroethane	µg/L	0.333U		0.333U U 0.333U U	
Chloroform	µg/L	23.4		17.2 = 16.5 =	
Chloromethane	µg/L	9.73		7.5 = 7.86 =	
cis-1,2-Dichloroethene	µg/L	430J		666JU UJ 666JU UJ	
Dibromochloromethane	µg/L	0.333U		0.333U U 0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U 0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U 0.5U U	
Methylene chloride	µg/L	0.94J		7.56 UJ 7.51 UJ	
Tetrachloroethene	µg/L	333U		666JU UJ 666JU UJ	
Toluene	µg/L	0.333U		0.57J J 0.56J J	
trans-1,2-Dichloroethene	µg/L	333U		56.2 = 52.5 =	
Trichloroethene	µg/L	51600		45100J J 44800J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U 0.333U U	
Vinyl chloride	µg/L	0.333U		1.57 = 1.58 =	
Radionuclides					
Americium-241	pCi/L	-0.0163U UJ		0.0483U U 0.00000039 U	
Neptunium-237	pCi/L	0.00474U U		-0.0221U U 0.0269U U	
Plutonium-238	pCi/L	0.018U U		-0.00428U U -0.017U U	
Plutonium-239/240	pCi/L	0.0361U U		0.0128U U 0.00848U U	
Technetium-99	pCi/L	159 =		146 = 142 =	
Uranium	µg/L	2.56 =		1.91 = 2.08 =	
Uranium-233/234	pCi/L	0.55 =		0.737 = 0.85 =	
Uranium-235/236	pCi/L	0.065U U		0.0516U U 0U U	
Uranium-238	pCi/L	0.852 =		0.635 = 0.699 =	
Other Parameters					
Alkalinity	mg/L	281		280 = 270 =	
Chloride	mg/L	92.3		96 = 96.3 =	
Dissolved Solids	mg/L	4500		3760 = 3680 =	
Sulfate	mg/L	1960		1980 = 1980 =	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC54G					
Field Measurements					
Conductivity	µS/cm	4683		4684	
Depth to Water	ft	16.28		15.71	
Dissolved Oxygen	mg/L	1.12		0.39	
pH	Std Unit	5.44		5.53	
Temperature	deg C	14.1		16.7	
Turbidity	NTU	4.86		1.21	
X701-TC61G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	65.3		48.7 =	
1,1,2,2-Tetrachloroethane	µg/L	333U		116J J	
1,1,2-Trichloroethane	µg/L	33.9		34.5 =	
1,1-Dichloroethane	µg/L	4.21		3.45 =	
1,1-Dichloroethene	µg/L	0.333U		2.14 =	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.9J J	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	218		349JU UJ	
Benzene	µg/L	0.96J		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337U		0.337U U	
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	7.64		5.58 =	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	19.5		16.4 =	
Chloromethane	µg/L	8.4		7.62 =	
cis-1,2-Dichloroethene	µg/L	640J		568J J	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	1.18J		9.92 UJ	
Tetrachloroethene	µg/L	333U		256J J	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	333U		84J J	
Trichloroethene	µg/L	60400		61500J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC61G					
Vinyl chloride	µg/L	3.67		0.37J J	
Radionuclides					
Americium-241	pCi/L	0.0278U U		0.00667U U	
Neptunium-237	pCi/L	0.0735U U		0.0501U U	
Plutonium-238	pCi/L	0.0163U U		0.0375U U	
Plutonium-239/240	pCi/L	0.0244U U		0.00536U U	
Technetium-99	pCi/L	154 =		139 =	
Uranium	µg/L	1.23 J		1.4 UJ	
Uranium-233/234	pCi/L	0.322 UJ		0.324JU UJ	
Uranium-235/236	pCi/L	0.0642U U		0.0383U U	
Uranium-238	pCi/L	0.403 J		0.465 UJ	
Other Parameters					
Alkalinity	mg/L	296		292 =	
Chloride	mg/L	115		134 =	
Dissolved Solids	mg/L	4300		4210 =	
Sulfate	mg/L	2390		2340 =	
Field Measurements					
Conductivity	µS/cm	5323		5242	
Depth to Water	ft	15.39		15.06	
Dissolved Oxygen	mg/L	0		0	
pH	Std Unit	5.41		5.52	
Temperature	deg C	16.3		16.6	
Turbidity	NTU	10.5		8.07	
X701-TC67G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.45		1.27 =	
1,1,2,2-Tetrachloroethane	µg/L	2.27		16.7JU UJ	
1,1,2-Trichloroethane	µg/L	4.75		5.07 =	
1,1-Dichloroethane	µg/L	0.69J		0.57J J	
1,1-Dichloroethene	µg/L	3.4		2.96 =	
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	
2-Butanone	µg/L	1.67U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	
Acetone	µg/L	1.74U		87.2JU UJ	
Benzene	µg/L	0.333U		0.333U U	
Bromodichloromethane	µg/L	0.333U		0.333U U	
Bromoform	µg/L	0.333U		0.333U U	
Bromomethane	µg/L	0.337U		0.337U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X701-TC67G					
Carbon disulfide	µg/L	1.67U		1.67U U	
Carbon tetrachloride	µg/L	0.333U		0.333U U	
Chlorobenzene	µg/L	0.333U		0.333U U	
Chloroethane	µg/L	0.333U		0.333U U	
Chloroform	µg/L	5.4		4.81 =	
Chloromethane	µg/L	0.67J		0.9J J	
cis-1,2-Dichloroethene	µg/L	103		82J J	
Dibromochloromethane	µg/L	0.333U		0.333U U	
Ethylbenzene	µg/L	0.333U		0.333U U	
m,p-Xylenes	µg/L	0.5U		0.5U U	
Methylene chloride	µg/L	0.5U		10.3 UJ	
Tetrachloroethene	µg/L	11.7		16.7JU UJ	
Toluene	µg/L	0.333U		0.333U U	
trans-1,2-Dichloroethene	µg/L	7.22		16.7JU UJ	
Trichloroethene	µg/L	5720		4710J J	
Trichlorofluoromethane	µg/L	0.333U		0.333U U	
Vinyl chloride	µg/L	1.63		1.27 =	
Radionuclides					
Americium-241	pCi/L	-0.0332U U		0.0072U U	
Neptunium-237	pCi/L	-0.0267U U		0.0147U U	
Plutonium-238	pCi/L	0.0202U U		-0.024U U	
Plutonium-239/240	pCi/L	0.0303U U		-0.012U U	
Technetium-99	pCi/L	39.2 =		39.8 =	
Uranium	µg/L	0.583 UJ		0.285JU UJ	
Uranium-233/234	pCi/L	0.176JU UJ		0.0465U U	
Uranium-235/236	pCi/L	0.0476U U		0.0391U U	
Uranium-238	pCi/L	0.189JU UJ		0.0898JU UJ	
Other Parameters					
Alkalinity	mg/L	108		103 =	
Chloride	mg/L	126		157 =	
Dissolved Solids	mg/L	828		924 =	
Sulfate	mg/L	313		345 =	
Field Measurements					
Conductivity	µS/cm	1260		1408	
Depth to Water	ft	13.97		14.24	
Dissolved Oxygen	mg/L	0.12		0	
pH	Std Unit	5.48		5.6	
Temperature	deg C	15.1		16.5	
Turbidity	NTU	41.5		16.7	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X744G-01G					
Metals					
Beryllium	µg/L	0.642 =		0.565 =	
Cadmium	µg/L	61.7 =		61.2 =	
Chromium	µg/L	3U U		3U U	
Manganese	µg/L	3610 =		3660 =	
Nickel	µg/L	189 =		191 =	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U U		0.333U U	
1,1-Dichloroethane	µg/L	0.333U U		0.333U U	
1,1-Dichloroethene	µg/L	0.333U U		0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U U		0.333U U	
2-Butanone	µg/L	1.67U U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U U		1.67U U	
Acetone	µg/L	1.74U U		1.74U U	
Benzene	µg/L	0.333U U		0.333U U	
Bromodichloromethane	µg/L	0.333U U		0.333U U	
Bromoform	µg/L	0.333U U		0.333U U	
Bromomethane	µg/L	0.337U U		0.337U U	
Carbon disulfide	µg/L	1.67U U		1.67U U	
Carbon tetrachloride	µg/L	0.333U U		0.333U U	
Chlorobenzene	µg/L	0.333U U		0.333U U	
Chloroethane	µg/L	0.333U U		0.333U U	
Chloroform	µg/L	0.333U U		0.333U U	
Chloromethane	µg/L	0.333U U		0.333U U	
cis-1,2-Dichloroethene	µg/L	0.333U U		0.333U U	
Dibromochloromethane	µg/L	0.333U U		0.333U U	
Ethylbenzene	µg/L	0.333U U		0.333U U	
m,p-Xylenes	µg/L	0.5U U		0.5U U	
Methylene chloride	µg/L	1.15J UJ		0.5U U	
Tetrachloroethene	µg/L	0.333U U		0.333U U	
Toluene	µg/L	0.333U U		0.333U U	
trans-1,2-Dichloroethene	µg/L	0.333U U		0.333U U	
Trichloroethene	µg/L	0.333U U		0.333U U	
Trichlorofluoromethane	µg/L	0.333U U		0.333U U	
Vinyl chloride	µg/L	0.333U U		0.333U U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X744G-01G					
Field Measurements					
Conductivity	µS/cm	2814		2818	
Depth to Water	ft	14.21		13.96	
Dissolved Oxygen	mg/L	0		0.02	
pH	Std Unit	4.86		4.89	
Temperature	deg C	14.2		16.3	
Turbidity	NTU	13.2		7.66	
X744G-02G					
Metals					
Beryllium	µg/L	2.38 =		2.27	
Cadmium	µg/L	72.2 =		74.4	
Chromium	µg/L	3U U		3U	
Manganese	µg/L	558 =		573	
Nickel	µg/L	520 =		531	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U		0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U U		0.333U	
1,1,2-Trichloroethane	µg/L	0.333U U		0.333U	
1,1-Dichloroethane	µg/L	0.333U U		0.333U	
1,1-Dichloroethene	µg/L	0.333U U		0.333U	
1,2-Dichlorobenzene	µg/L	0.333U U		0.333U	
1,2-Dichloroethane	µg/L	0.333U U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U U		0.333U	
2-Butanone	µg/L	1.67U U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U U		1.67U	
Acetone	µg/L	1.74U U		1.74U	
Benzene	µg/L	0.333U U		0.333U	
Bromodichloromethane	µg/L	0.333U U		0.333U	
Bromoform	µg/L	0.333U U		0.333U	
Bromomethane	µg/L	0.337U U		0.337U	
Carbon disulfide	µg/L	1.67U U		1.67U	
Carbon tetrachloride	µg/L	0.333U U		0.333U	
Chlorobenzene	µg/L	0.333U U		0.333U	
Chloroethane	µg/L	0.333U U		0.333U	
Chloroform	µg/L	0.333U U		0.333U	
Chloromethane	µg/L	0.333U U		0.333U	
cis-1,2-Dichloroethene	µg/L	2.14 UJ		2.07	
Dibromochloromethane	µg/L	0.333U U		0.333U	
Ethylbenzene	µg/L	0.333U U		0.333U	
m,p-Xylenes	µg/L	0.5U U		0.5U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X744G-02G					
Methylene chloride	µg/L	0.99J UJ		0.82J	
Tetrachloroethene	µg/L	0.333U U		0.333U	
Toluene	µg/L	0.333U U		0.333U	
trans-1,2-Dichloroethene	µg/L	0.333U U		0.333U	
Trichloroethene	µg/L	33.8 J		32.9	
Trichlorofluoromethane	µg/L	6.51 =		4.51	
Vinyl chloride	µg/L	0.333U U		0.333U	
Field Measurements					
Conductivity	µS/cm	1492		1560	
Depth to Water	ft	14.77		14.58	
Dissolved Oxygen	mg/L	0.03		0.1	
pH	Std Unit	5.05		5.24	
Temperature	deg C	14.9		15.5	
Turbidity	NTU	4.19		1.06	
X744G-03G					
Metals					
Beryllium	µg/L	0.2U U		0.2U	
Cadmium	µg/L	1.27 =		0.989J	
Chromium	µg/L	3U U		5.9J	
Manganese	µg/L	103 =		65.9	
Nickel	µg/L	13.6 =		11.2	
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U		0.333U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U U		0.333U	
1,1,2-Trichloroethane	µg/L	0.333U U		0.333U	
1,1-Dichloroethane	µg/L	0.333U U		0.333U	
1,1-Dichloroethene	µg/L	0.333U U		0.333U	
1,2-Dichlorobenzene	µg/L	0.333U U		0.333U	
1,2-Dichloroethane	µg/L	0.333U U		0.333U	
1,2-Dimethylbenzene	µg/L	0.333U U		0.333U	
1,4-Dichlorobenzene	µg/L	0.333U U		0.333U	
2-Butanone	µg/L	1.67U U		1.67U	
4-Methyl-2-pentanone	µg/L	1.67U U		1.67U	
Acetone	µg/L	1.74U U		1.74U	
Benzene	µg/L	0.333U U		0.333U	
Bromodichloromethane	µg/L	0.333U U		0.333U	
Bromoform	µg/L	0.333U U		0.333U	
Bromomethane	µg/L	0.337U U		0.337U	
Carbon disulfide	µg/L	1.67U U		1.67U	
Carbon tetrachloride	µg/L	0.333U U		0.333U	
Chlorobenzene	µg/L	0.333U U		0.333U	

X-701B Former Holding Pond – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X744G-03G					
Chloroethane	µg/L	0.333U U		0.333U	
Chloroform	µg/L	0.333U U		0.333U	
Chloromethane	µg/L	0.333U U		0.333U	
cis-1,2-Dichloroethene	µg/L	0.56J UJ		0.5J	
Dibromochloromethane	µg/L	0.333U U		0.333U	
Ethylbenzene	µg/L	0.333U U		0.333U	
m,p-Xylenes	µg/L	0.5U U		0.5U	
Methylene chloride	µg/L	1.21J UJ		0.5U	
Tetrachloroethene	µg/L	0.333U U		0.333U	
Toluene	µg/L	0.333U U		0.333U	
trans-1,2-Dichloroethene	µg/L	0.333U U		0.333U	
Trichloroethene	µg/L	6.9 UJ		6	
Trichlorofluoromethane	µg/L	0.333U U		0.333U	
Vinyl chloride	µg/L	0.333U U		0.333U	
Field Measurements					
Conductivity	µS/cm	1095		1120	
Depth to Water	ft	17.2		17.06	
Dissolved Oxygen	mg/L	2.11		4.2	
pH	Std Unit	5.63		5.86	
Temperature	deg C	14.4		22.6	
Turbidity	NTU	38.7		54.9	

ANALYTICAL DATA TABLES
X-633 FORMER RECIRCULATING COOLING WATER COMPLEX

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-633 Former Recirculating Cooling Water Complex – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X633-07G					
Metals					
Arsenic	µg/L		2.02J		2U U
Chromium	µg/L		752		149 =
Nickel	µg/L		131		86.1 =
Field Measurements					
Conductivity	µS/cm		1074		1452
Depth to Water	ft		10.12		11.63
Dissolved Oxygen	mg/L		5.3		1.76
pH	Std Unit		7.04		7.25
Temperature	deg C		11.3		15.7
Turbidity	NTU		39.8		10.3
X633-PZ04G					
Metals					
Arsenic	µg/L		3.58J J 4.12J J		2.1J J 2.02J J
Chromium	µg/L		27.8 = 23.7 =		27.9 = 27.2 =
Nickel	µg/L		1.89J J 1.81J J		1.11J J 1.12J J
Field Measurements					
Conductivity	µS/cm		745.7		979
Depth to Water	ft		5.42		5.6
Dissolved Oxygen	mg/L		1.01		0.28
pH	Std Unit		6.63		6.97
Temperature	deg C		14.3		14.9
Turbidity	NTU		4.5		1.69

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APPENDIX C

QUADRANT III SAMPLING RESULTS

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ANALYTICAL DATA TABLES
X-616 FORMER CHROMIUM SLUDGE SURFACE IMPOUNDMENTS

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-02G					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.3U			
Chromium	µg/L	3U			
Manganese	µg/L	1U			
Nickel	µg/L	0.831J			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U *U*			
1,1,2,2-Tetrachloroethane	µg/L	0.333U *U*			
1,1,2-Trichloroethane	µg/L	0.333U *U*			
1,1-Dichloroethane	µg/L	0.333U *U*			
1,1-Dichloroethene	µg/L	0.333U *U*			
1,2-Dichlorobenzene	µg/L	0.333U *U*			
1,2-Dichloroethane	µg/L	0.333U *U*			
1,2-Dimethylbenzene	µg/L	0.333U *U*			
1,4-Dichlorobenzene	µg/L	0.333U *U*			
2-Butanone	µg/L	1.67U *U*			
4-Methyl-2-pentanone	µg/L	1.67U *U*			
Acetone	µg/L	1.74U *U*			
Benzene	µg/L	0.333U *U*			
Bromodichloromethane	µg/L	0.333U *U*			
Bromoform	µg/L	0.333U *U*			
Bromomethane	µg/L	0.337U *U*			
Carbon disulfide	µg/L	1.67U *U*			
Carbon tetrachloride	µg/L	0.333U *U*			
Chlorobenzene	µg/L	0.333U *U*			
Chloroethane	µg/L	0.333U *U*			
Chloroform	µg/L	0.333U *U*			
Chloromethane	µg/L	0.333U *U*			
cis-1,2-Dichloroethene	µg/L	0.333U *U*			
Dibromochloromethane	µg/L	0.333U *U*			
Ethylbenzene	µg/L	0.333U *U*			
m,p-Xylenes	µg/L	0.5U *U*			
Methylene chloride	µg/L	0.61J *UJ*			
Tetrachloroethene	µg/L	0.333U *U*			
Toluene	µg/L	0.333U *U*			
trans-1,2-Dichloroethene	µg/L	0.333U *U*			
Trichloroethene	µg/L	0.333U *U*			
Vinyl chloride	µg/L	0.333U *U*			
Field Measurements					
Conductivity	µS/cm	551			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-02G					
Depth to Water	ft	10.3			
Dissolved Oxygen	mg/L	7			
pH	Std Unit	7.03			
Temperature	deg C	10.4			
Turbidity	NTU	0.4			
X616-03G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,1,2-Trichloroethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,1-Dichloroethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,1-Dichloroethene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,2-Dichlorobenzene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,2-Dichloroethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,2-Dimethylbenzene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
1,4-Dichlorobenzene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
2-Butanone	µg/L		1.67U U	1.67U U 1.67U U	1.67U
4-Methyl-2-pentanone	µg/L		1.67U U	1.67U U 1.67U U	1.67U
Acetone	µg/L		1.74U U	1.74U U 1.74U U	1.74U
Benzene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Bromodichloromethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Bromoform	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Bromomethane	µg/L		0.337U U	0.337U U 0.337U U	0.337U
Carbon disulfide	µg/L		1.67U U	1.67U U 1.67U U	1.67U
Carbon tetrachloride	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Chlorobenzene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Chloroethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Chloroform	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Chloromethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Dibromochloromethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Ethylbenzene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
m,p-Xylenes	µg/L		0.5U U	0.5U U 0.5U U	0.5U
Methylene chloride	µg/L		0.5U U	0.5U U 0.5U U	0.5U
Tetrachloroethene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Toluene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Trichloroethene	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Trichlorofluoromethane	µg/L		0.333U U	0.333U U 0.333U U	0.333U
Vinyl chloride	µg/L		0.333U U	0.333U U 0.333U U	0.333U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-03G					
Field Measurements					
Conductivity	µS/cm		951	1043	887
Depth to Water	ft		5.36	8.34	8.76
Dissolved Oxygen	mg/L		1.13	0.25	3.86
pH	Std Unit		6.25	6.2	6.36
Temperature	deg C		13.8	19.6	14.6
Turbidity	NTU		1.24	21.7	0.57
X616-05G					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.306J			
Chromium	µg/L	917			
Manganese	µg/L	69.8			
Nickel	µg/L	201			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U U			
1,1,2-Trichloroethane	µg/L	0.333U U			
1,1-Dichloroethane	µg/L	0.333U U			
1,1-Dichloroethene	µg/L	0.333U U			
1,2-Dichlorobenzene	µg/L	0.333U U			
1,2-Dichloroethane	µg/L	0.333U U			
1,2-Dimethylbenzene	µg/L	0.333U U			
1,4-Dichlorobenzene	µg/L	0.333U U			
2-Butanone	µg/L	1.67U U			
4-Methyl-2-pentanone	µg/L	1.67U U			
Acetone	µg/L	1.74U U			
Benzene	µg/L	0.333U U			
Bromodichloromethane	µg/L	0.333U U			
Bromoform	µg/L	0.333U U			
Bromomethane	µg/L	0.337U U			
Carbon disulfide	µg/L	1.67U U			
Carbon tetrachloride	µg/L	0.333U U			
Chlorobenzene	µg/L	0.333U U			
Chloroethane	µg/L	0.333U U			
Chloroform	µg/L	0.333U U			
Chloromethane	µg/L	0.333U U			
cis-1,2-Dichloroethene	µg/L	0.333U U			
Dibromochloromethane	µg/L	0.333U U			
Ethylbenzene	µg/L	0.333U U			
m,p-Xylenes	µg/L	0.5U U			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-05G					
Methylene chloride	µg/L	0.7J UJ			
Tetrachloroethene	µg/L	0.333U U			
Toluene	µg/L	0.333U U			
trans-1,2-Dichloroethene	µg/L	0.333U U			
Trichloroethene	µg/L	0.333U U			
Vinyl chloride	µg/L	0.333U U			
Field Measurements					
Conductivity	µS/cm	2804			
Depth to Water	ft	14.87			
Dissolved Oxygen	mg/L	3.77			
pH	Std Unit	6.29			
Temperature	deg C	12.8			
Turbidity	NTU	31.7			
X616-07G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1,2-Trichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1-Dichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1-Dichloroethene	µg/L		0.333U U	0.333U U	0.333U
1,2-Dichlorobenzene	µg/L		0.333U U	0.333U U	0.333U
1,2-Dichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,2-Dimethylbenzene	µg/L		0.333U U	0.333U U	0.333U
1,4-Dichlorobenzene	µg/L		0.333U U	0.333U U	0.333U
2-Butanone	µg/L		1.67U U	1.67U U	1.67U
4-Methyl-2-pentanone	µg/L		1.67U U	1.67U U	1.67U
Acetone	µg/L		1.74U U	1.74U U	1.74U
Benzene	µg/L		0.333U U	0.333U U	0.333U
Bromodichloromethane	µg/L		0.333U U	0.333U U	0.333U
Bromoform	µg/L		0.333U U	0.333U U	0.333U
Bromomethane	µg/L		0.337U U	0.337U U	0.337U
Carbon disulfide	µg/L		1.67U U	1.67U U	1.67U
Carbon tetrachloride	µg/L		0.333U U	0.333U U	0.333U
Chlorobenzene	µg/L		0.333U U	0.333U U	0.333U
Chloroethane	µg/L		0.333U U	0.333U U	0.333U
Chloroform	µg/L		0.333U U	0.333U U	0.333U
Chloromethane	µg/L		0.333U U	0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U	0.333U U	0.333U
Dibromochloromethane	µg/L		0.333U U	0.333U U	0.333U
Ethylbenzene	µg/L		0.333U U	0.333U U	0.333U
m,p-Xylenes	µg/L		0.5U U	0.5U U	0.5U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-07G					
Methylene chloride	µg/L		0.5U U	0.5U U	0.5U
Tetrachloroethene	µg/L		0.333U U	0.333U U	0.333U
Toluene	µg/L		0.333U U	0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U	0.333U U	0.333U
Trichloroethene	µg/L		0.333U U	0.333U U	0.333U
Trichlorofluoromethane	µg/L		0.333U U	0.333U U	0.333U
Vinyl chloride	µg/L		0.333U U	0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm		479.8	989	758
Depth to Water	ft		10.64	13.65	14.11
Dissolved Oxygen	mg/L		4.36	1.23	4.25
pH	Std Unit		6.45	6.43	6.49
Temperature	deg C		13.3	20.7	13.7
Turbidity	NTU		12.6	26.4	28.9
X616-08G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U	1.38 =	0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1,2-Trichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1-Dichloroethane	µg/L		0.333U U	3.27 =	0.333U
1,1-Dichloroethene	µg/L		0.78J J	50.5 =	0.333U
1,2-Dichlorobenzene	µg/L		0.333U U	0.333U U	0.333U
1,2-Dichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,2-Dimethylbenzene	µg/L		0.333U U	0.333U U	0.333U
1,4-Dichlorobenzene	µg/L		0.333U U	0.333U U	0.333U
2-Butanone	µg/L		1.67U U	1.67U U	1.67U
4-Methyl-2-pentanone	µg/L		1.67U U	1.67U U	1.67U
Acetone	µg/L		1.74U U	1.74U U	1.74U
Benzene	µg/L		0.333U U	0.333U U	0.333U
Bromodichloromethane	µg/L		0.333U U	0.333U U	0.333U
Bromoform	µg/L		0.333U U	0.333U U	0.333U
Bromomethane	µg/L		0.337U U	0.337U U	0.337U
Carbon disulfide	µg/L		1.67U U	1.67U U	1.67U
Carbon tetrachloride	µg/L		0.333U U	0.333U U	0.333U
Chlorobenzene	µg/L		0.333U U	0.333U U	0.333U
Chloroethane	µg/L		0.333U U	0.333U U	0.333U
Chloroform	µg/L		0.333U U	0.333U U	0.333U
Chloromethane	µg/L		0.333U U	0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U	2.58 =	0.333U
Dibromochloromethane	µg/L		0.333U U	0.333U U	0.333U
Ethylbenzene	µg/L		0.333U U	0.333U U	0.333U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-08G					
m,p-Xylenes	µg/L		0.5U U	0.5U U	0.5U
Methylene chloride	µg/L		0.5U U	0.5U U	0.5U
Tetrachloroethene	µg/L		0.333U U	0.333U U	0.333U
Toluene	µg/L		0.333U U	0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U	0.333U U	0.333U
Trichloroethene	µg/L		0.63J J	32.9 =	0.333U
Trichlorofluoromethane	µg/L		0.333U U	0.333U U	0.333U
Vinyl chloride	µg/L		0.333U U	0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm		820	1622	793
Depth to Water	ft		7.01	9.95	10.42
Dissolved Oxygen	mg/L		1.19	0.08	2.87
pH	Std Unit		6.62	6.17	6.67
Temperature	deg C		13.1	14.6	14.5
Turbidity	NTU		198	6.98	17.2
X616-09G					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.3U			
Chromium	µg/L	5.85J			
Manganese	µg/L	26.1			
Nickel	µg/L	4.29			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.64J J	1.34 =	2.46 = 2.13 =	0.69J
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
1,1-Dichloroethane	µg/L	1.06 =	1.85 =	3.01 = 2.83 =	0.97J
1,1-Dichloroethene	µg/L	15.4 =	31.6 =	58.1 = 52.9 =	14.6
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
1,2-Dichloroethane	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
2-Butanone	µg/L	1.67U U	1.67U U	1.67U U 1.67U U	1.67U
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U	1.67U U 1.67U U	1.67U
Acetone	µg/L	1.74U U	1.74U U	1.74U U 1.74U U	1.74U
Benzene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Bromodichloromethane	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Bromoform	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Bromomethane	µg/L	0.337U U	0.337U U	0.337U U 0.337U U	0.337U
Carbon disulfide	µg/L	1.67U U	1.67U U	1.67U U 1.67U U	1.67U
Carbon tetrachloride	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-09G					
Chlorobenzene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Chloroethane	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Chloroform	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Chloromethane	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L	1.59 =	2.57 =	2.21 = 2.09 =	1.99
Dibromochloromethane	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Ethylbenzene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
m,p-Xylenes	µg/L	0.5U U	0.5U U	0.5U U 0.5U U	0.5U
Methylene chloride	µg/L	0.76J UJ	1.54J UJ	0.5U U 0.5U U	0.5U
Tetrachloroethene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Toluene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Trichloroethene	µg/L	13.6 =	23.3 =	40.2 = 37.7 =	15.3
Trichlorofluoromethane	µg/L		7.42 =	16.1 = 14.8 =	4.62
Vinyl chloride	µg/L	0.333U U	0.333U U	0.333U U 0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm	1799	2350	2809	2753
Depth to Water	ft	9.38	8.54	11.11	10.59
Dissolved Oxygen	mg/L	5.95	2.69	1.94	4.17
pH	Std Unit	6.53	6.4	6.22	6.32
Temperature	deg C	11	12.5	16.2	12.8
Turbidity	NTU	61.2	221	53.6	44
X616-10G					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.3U			
Chromium	µg/L	3U			
Manganese	µg/L	10.5			
Nickel	µg/L	0.969J			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-10G					
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	933			
Depth to Water	ft	8.66			
Dissolved Oxygen	mg/L	0.32			
pH	Std Unit	6.45			
Temperature	deg C	14.2			
Turbidity	NTU	2.01			
X616-13G					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.3U			
Chromium	µg/L	3U			
Manganese	µg/L	3.33J			
Nickel	µg/L	4.11			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	2.14 =	2.53 = 2.39 =	2.47 =	2.26
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
1,1-Dichloroethane	µg/L	1.45 =	1.61 = 1.63 =	1.57 =	1.48
1,1-Dichloroethene	µg/L	39.8 =	45 = 43.3 =	51.2 =	39.9

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-13G					
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
1,2-Dichloroethane	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
2-Butanone	µg/L	1.67U U	1.67U U 1.67U U	1.67U U	1.67U
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U 1.67U U	1.67U U	1.67U
Acetone	µg/L	1.74U U	1.74U U 1.74U U	1.74U U	1.74U
Benzene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Bromodichloromethane	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Bromoform	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Bromomethane	µg/L	0.337U U	0.337U U 0.337U U	0.337U U	0.337U
Carbon disulfide	µg/L	1.67U U	1.67U U 1.67U U	1.67U U	1.67U
Carbon tetrachloride	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Chlorobenzene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Chloroethane	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Chloroform	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Chloromethane	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L	0.9J J	1.16 = 1.1 =	0.94J J	0.93J
Dibromochloromethane	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Ethylbenzene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
m,p-Xylenes	µg/L	0.5U U	0.5U U 0.5U U	0.5U U	0.5U
Methylene chloride	µg/L	0.69J UJ	1.24J UJ 1.16J UJ	0.5U U	0.5U
Tetrachloroethene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Toluene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Trichloroethene	µg/L	25.4 =	27.5 = 27 =	29.1 =	27.1
Trichlorofluoromethane	µg/L		15.4 = 14.4 =	11.1 =	8.76
Vinyl chloride	µg/L	0.333U U	0.333U U 0.333U U	0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm	3318	3310	3364	3261
Depth to Water	ft	9.86	8.74	11.01	11.8
Dissolved Oxygen	mg/L	0.69	0.46	0.14	0.29
pH	Std Unit	6.12	6.17	6.19	6.19
Temperature	deg C	11.1	13.6	16.1	14.1
Turbidity	NTU	2.81	3.06	3.84	2.19
X616-14G					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.3U			
Chromium	µg/L	3U			
Manganese	µg/L	8.85			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-14G					
Nickel	µg/L	3.44			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.77J J	1.09 =	0.78J J	0.84J
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,1-Dichloroethane	µg/L	0.4J J	0.55J J	0.43J J	0.41J
1,1-Dichloroethene	µg/L	11.3 =	12.6 =	12.9 =	11.1
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,2-Dichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
2-Butanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U
Acetone	µg/L	1.74U U	1.74U U	1.74U U	1.74U
Benzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromodichloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromoform	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromomethane	µg/L	0.337U U	0.337U U	0.337U U	0.337U
Carbon disulfide	µg/L	1.67U U	1.67U U	1.67U U	1.67U
Carbon tetrachloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloroform	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Dibromochloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Ethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
m,p-Xylenes	µg/L	0.5U U	0.5U U	0.5U U	0.5U
Methylene chloride	µg/L	0.63J UJ	0.5U U	0.5U U	0.5U
Tetrachloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Toluene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Trichloroethene	µg/L	4.59 =	5.25 =	4.5 =	4.65
Trichlorofluoromethane	µg/L		5.05 =	5.21 =	4.68
Vinyl chloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm	3293	3321	3360	3334
Depth to Water	ft	13.19	11.21	13.35	14.43
Dissolved Oxygen	mg/L	0.72	14.6	0.19	0.31
pH	Std Unit	6.29	6.28	6.28	6.31
Temperature	deg C	14.5	14.6	15.3	14.8

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
X616-14G						
Turbidity	NTU	5.89	5.14	10.3	23.5	
X616-16G						
Metals						
Beryllium	µg/L	0.2U U				
Cadmium	µg/L	0.551J J				
Chromium	µg/L	3U U				
Manganese	µg/L	254 =				
Nickel	µg/L	9.85 =				
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
1,1-Dichloroethane	µg/L	0.333U U	0.333U U	0.6J J	0.333U	0.333U
1,1-Dichloroethene	µg/L	1.03 =	0.71J J	12.3 =	4.25	4.48
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
1,2-Dichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
2-Butanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U	1.67U
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U	1.67U
Acetone	µg/L	1.74U U	1.74U U	1.74U U	1.74U	1.74U
Benzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Bromodichloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Bromoform	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Bromomethane	µg/L	0.337U U	0.337U U	0.337U U	0.337U	0.337U
Carbon disulfide	µg/L	1.67U U	1.67U U	1.67U U	1.67U	1.67U
Carbon tetrachloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Chlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Chloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Chloroform	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Chloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
cis-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.77J J	0.37J	0.37J
Dibromochloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Ethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
m,p-Xylenes	µg/L	0.5U U	0.5U U	0.5U U	0.5U	0.5U
Methylene chloride	µg/L	0.5U U	1.07J UJ	0.5U U	0.5U	0.5U
Tetrachloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Toluene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Trichloroethene	µg/L	1.32 =	0.89J J	11.3 =	4.26	4.47
Trichlorofluoromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
X616-16G						
Vinyl chloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U	0.333U
Field Measurements						
Conductivity	µS/cm	1148	1091	1361	1155	
Depth to Water	ft	7.84	6.99	9.73	10.03	
Dissolved Oxygen	mg/L	2.35	2.11	2.6	1.44	
pH	Std Unit	5.74	5.86	5.99	5.92	
Temperature	deg C	12.3	13.1	14.9	14.1	
Turbidity	NTU	0.48	0.64	0.55	2.26	
X616-17G						
Metals						
Beryllium	µg/L	0.2U				
Cadmium	µg/L	0.3U				
Chromium	µg/L	3J				
Manganese	µg/L	9.65				
Nickel	µg/L	8.53				
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.333U U				
1,1,2,2-Tetrachloroethane	µg/L	0.333U U				
1,1,2-Trichloroethane	µg/L	0.333U U				
1,1-Dichloroethane	µg/L	0.333U U				
1,1-Dichloroethene	µg/L	0.333U U				
1,2-Dichlorobenzene	µg/L	0.333U U				
1,2-Dichloroethane	µg/L	0.333U U				
1,2-Dimethylbenzene	µg/L	0.333U U				
1,4-Dichlorobenzene	µg/L	0.333U U				
2-Butanone	µg/L	1.67U U				
4-Methyl-2-pentanone	µg/L	1.67U U				
Acetone	µg/L	1.74U U				
Benzene	µg/L	0.333U U				
Bromodichloromethane	µg/L	0.333U U				
Bromoform	µg/L	0.333U U				
Bromomethane	µg/L	0.337U U				
Carbon disulfide	µg/L	1.67U U				
Carbon tetrachloride	µg/L	0.333U U				
Chlorobenzene	µg/L	0.333U U				
Chloroethane	µg/L	0.333U U				
Chloroform	µg/L	0.333U U				
Chloromethane	µg/L	0.333U U				
cis-1,2-Dichloroethene	µg/L	0.333U U				
Dibromochloromethane	µg/L	0.333U U				
Ethylbenzene	µg/L	0.333U U				

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-17G					
m,p-Xylenes	µg/L	0.5U U			
Methylene chloride	µg/L	0.67J UJ			
Tetrachloroethene	µg/L	0.333U U			
Toluene	µg/L	0.333U U			
trans-1,2-Dichloroethene	µg/L	0.333U U			
Trichloroethene	µg/L	0.333U U			
Vinyl chloride	µg/L	0.333U U			
Field Measurements					
Conductivity	µS/cm	2340			
Depth to Water	ft	12.65			
Dissolved Oxygen	mg/L	2.11			
pH	Std Unit	6.87			
Temperature	deg C	12.3			
Turbidity	NTU	6.15			
X616-18B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.41J J	1.95 =	3.94
1,1,2,2-Tetrachloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1,2-Trichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,1-Dichloroethane	µg/L		0.34J J	0.99J J	2.2
1,1-Dichloroethene	µg/L		5.08 =	27.6 =	47.3
1,2-Dichlorobenzene	µg/L		0.333U U	0.333U U	0.333U
1,2-Dichloroethane	µg/L		0.333U U	0.333U U	0.333U
1,2-Dimethylbenzene	µg/L		0.333U U	0.333U U	0.333U
1,4-Dichlorobenzene	µg/L		0.333U U	0.333U U	0.333U
2-Butanone	µg/L		1.67U U	1.67U U	1.67U
4-Methyl-2-pentanone	µg/L		1.67U U	1.67U U	1.67U
Acetone	µg/L		1.74U U	1.74U U	1.74U
Benzene	µg/L		0.333U U	0.333U U	0.333U
Bromodichloromethane	µg/L		0.333U U	0.333U U	0.333U
Bromoform	µg/L		0.333U U	0.333U U	0.333U
Bromomethane	µg/L		0.337U U	0.337U U	0.337U
Carbon disulfide	µg/L		1.67U U	1.67U U	1.67U
Carbon tetrachloride	µg/L		0.333U U	0.333U U	0.333U
Chlorobenzene	µg/L		0.333U U	0.333U U	0.333U
Chloroethane	µg/L		0.333U U	0.333U U	0.333U
Chloroform	µg/L		0.333U U	0.333U U	0.333U
Chloromethane	µg/L		0.333U U	0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U	0.47J J	1.07
Dibromochloromethane	µg/L		0.333U U	0.333U U	0.333U
Ethylbenzene	µg/L		0.333U U	0.333U U	0.333U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-18B					
m,p-Xylenes	µg/L		0.5U U	0.5U U	0.5U
Methylene chloride	µg/L		0.5U U	0.5U U	0.5U
Tetrachloroethene	µg/L		0.333U U	0.333U U	0.333U
Toluene	µg/L		0.333U U	0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U	0.333U U	0.333U
Trichloroethene	µg/L		2.31 =	9.14 =	16.5
Trichlorofluoromethane	µg/L		0.333U U	0.333U U	0.333U
Vinyl chloride	µg/L		0.333U U	0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm		3568	3359	3316
Depth to Water	ft		9.79	12.55	13.2
Dissolved Oxygen	mg/L		1.16	0.48	0.49
pH	Std Unit		6.63	6.25	6.59
Temperature	deg C		12.9	21	12.8
Turbidity	NTU		122	1.66	1.55
X616-19B					
Metals					
Beryllium	µg/L	0.2U U			
Cadmium	µg/L	0.3U U			
Chromium	µg/L	11.2 =			
Manganese	µg/L	189 =			
Nickel	µg/L	2.66 =			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U U			
1,1,2-Trichloroethane	µg/L	0.333U U			
1,1-Dichloroethane	µg/L	0.333U U			
1,1-Dichloroethene	µg/L	0.333U U			
1,2-Dichlorobenzene	µg/L	0.333U U			
1,2-Dichloroethane	µg/L	0.333U U			
1,2-Dimethylbenzene	µg/L	0.333U U			
1,4-Dichlorobenzene	µg/L	0.333U U			
2-Butanone	µg/L	1.67U U			
4-Methyl-2-pentanone	µg/L	1.67U U			
Acetone	µg/L	1.74U U			
Benzene	µg/L	0.333U U			
Bromodichloromethane	µg/L	0.333U U			
Bromoform	µg/L	0.333U U			
Bromomethane	µg/L	0.337U U			
Carbon disulfide	µg/L	1.67U U			
Carbon tetrachloride	µg/L	0.333U U			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-19B					
Chlorobenzene	µg/L	0.333U U			
Chloroethane	µg/L	0.333U U			
Chloroform	µg/L	0.333U U			
Chloromethane	µg/L	0.333U U			
cis-1,2-Dichloroethene	µg/L	0.333U U			
Dibromochloromethane	µg/L	0.333U U			
Ethylbenzene	µg/L	0.333U U			
m,p-Xylenes	µg/L	0.5U U			
Methylene chloride	µg/L	0.5U U			
Tetrachloroethene	µg/L	0.333U U			
Toluene	µg/L	0.333U U			
trans-1,2-Dichloroethene	µg/L	0.333U U			
Trichloroethene	µg/L	0.333U U			
Trichlorofluoromethane	µg/L	0.333U U			
Vinyl chloride	µg/L	0.333U U			
Field Measurements					
Conductivity	µS/cm	1645			
Depth to Water	ft	12.55			
Dissolved Oxygen	mg/L	3.46			
pH	Std Unit	6.54			
Temperature	deg C	12.5			
Turbidity	NTU	18.7			
X616-20B					
Metals					
Beryllium	µg/L	0.2U U			
Cadmium	µg/L	0.3U U			
Chromium	µg/L	3U U			
Manganese	µg/L	29 =			
Nickel	µg/L	2.35 =			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.78J J	0.86J J	1.35 =	1.52
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,1-Dichloroethane	µg/L	2.05 =	2.16 =	3 =	3.53
1,1-Dichloroethene	µg/L	32.1 =	32 =	57.6 =	57.9
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,2-Dichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
2-Butanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-20B					
Acetone	µg/L	1.74U U	1.74U U	1.74U U	1.74U
Benzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromodichloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromoform	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromomethane	µg/L	0.337U U	0.337U U	0.337U U	0.337U
Carbon disulfide	µg/L	1.67U U	1.67U U	1.67U U	1.67U
Carbon tetrachloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloroform	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L	1.76 =	1.89 =	2.34 =	2.69
Dibromochloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Ethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
m,p-Xylenes	µg/L	0.5U U	0.5U U	0.5U U	0.5U
Methylene chloride	µg/L	0.5U U	0.5U U	0.5U U	0.5U
Tetrachloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Toluene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Trichloroethene	µg/L	38.4 =	39.8 =	53.8 =	58.7
Trichlorofluoromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Vinyl chloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm	1782	1812	1890	1885
Depth to Water	ft	8.33	7.23	9.97	10.38
Dissolved Oxygen	mg/L	5.77	3.78	3.45	5.1
pH	Std Unit	6.21	6.23	6.26	6.51
Temperature	deg C	11.1	18	21.3	13.1
Turbidity	NTU	2.88	4.45	3.64	9.07
X616-21G					
Metals					
Beryllium	µg/L	0.2U U	0.2U U		
Cadmium	µg/L	0.3U U	0.3U U		
Chromium	µg/L	3U U	3U U		
Manganese	µg/L	27.8 =	35.4 =		
Nickel	µg/L	2.19 =	2.54 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U	0.333U U		
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U		
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U		
1,1-Dichloroethane	µg/L	0.333U U	0.333U U		

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-21G					
1,1-Dichloroethene	µg/L	0.333U U	0.333U U		
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U		
1,2-Dichloroethane	µg/L	0.333U U	0.333U U		
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U		
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U		
2-Butanone	µg/L	1.67U U	1.67U U		
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U		
Acetone	µg/L	1.74U U	1.74U U		
Benzene	µg/L	0.333U U	0.333U U		
Bromodichloromethane	µg/L	0.333U U	0.333U U		
Bromoform	µg/L	0.333U U	0.333U U		
Bromomethane	µg/L	0.337U U	0.337U U		
Carbon disulfide	µg/L	1.67U U	1.67U U		
Carbon tetrachloride	µg/L	0.333U U	0.333U U		
Chlorobenzene	µg/L	0.333U U	0.333U U		
Chloroethane	µg/L	0.333U U	0.333U U		
Chloroform	µg/L	0.333U U	0.333U U		
Chloromethane	µg/L	0.333U U	0.333U U		
cis-1,2-Dichloroethene	µg/L	0.333U U	0.333U U		
Dibromochloromethane	µg/L	0.333U U	0.333U U		
Ethylbenzene	µg/L	0.333U U	0.333U U		
m,p-Xylenes	µg/L	0.5U U	0.5U U		
Methylene chloride	µg/L	0.5U U	0.5U U		
Tetrachloroethene	µg/L	0.333U U	0.333U U		
Toluene	µg/L	0.333U U	0.333U U		
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U		
Trichloroethene	µg/L	0.333U U	0.333U U		
Trichlorofluoromethane	µg/L	0.333U U	0.333U U		
Vinyl chloride	µg/L	0.333U U	0.333U U		
Field Measurements					
Conductivity	µS/cm	628			
Depth to Water	ft	13.05			
Dissolved Oxygen	mg/L	0.42			
pH	Std Unit	6.61			
Temperature	deg C	14.6			
Turbidity	NTU	28.7			
X616-22G					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.3U			
Chromium	µg/L	3U			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-22G					
Manganese	µg/L	6.47			
Nickel	µg/L	1.05J			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	1277			
Depth to Water	ft	10.43			
Dissolved Oxygen	mg/L	0.3			
pH	Std Unit	6.39			
Temperature	deg C	15.1			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-22G					
Turbidity	NTU	0.36			
X616-24B					
Metals					
Beryllium	µg/L	0.2U			
Cadmium	µg/L	0.3U			
Chromium	µg/L	3U			
Manganese	µg/L	135			
Nickel	µg/L	3.28			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-24B					
Field Measurements					
Conductivity	µS/cm	1491			
Depth to Water	ft	10.82			
Dissolved Oxygen	mg/L	3.9			
pH	Std Unit	6.98			
Temperature	deg C	14.3			
Turbidity	NTU	4.31			
X616-25G					
Metals					
Beryllium	µg/L	1.1 =			
Cadmium	µg/L	0.3U U			
Chromium	µg/L	3U U			
Manganese	µg/L	2330 =			
Nickel	µg/L	211 =			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,1-Dichloroethane	µg/L	0.333U U	0.34J J	0.333U U	0.333U
1,1-Dichloroethene	µg/L	0.62J J	1.07 =	1.1 =	0.94J
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,2-Dichloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
2-Butanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U	1.67U U	1.67U
Acetone	µg/L	1.74U U	1.74U U	1.74U U	1.74U
Benzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromodichloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromoform	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Bromomethane	µg/L	0.337U U	0.337U U	0.337U U	0.337U
Carbon disulfide	µg/L	1.67U U	1.67U U	1.67U U	1.67U
Carbon tetrachloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloroethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloroform	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Chloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
cis-1,2-Dichloroethene	µg/L	0.34J J	0.44J J	0.333U U	0.333U
Dibromochloromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Ethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
m,p-Xylenes	µg/L	0.5U U	0.5U U	0.5U U	0.5U

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-25G					
Methylene chloride	µg/L	0.5U U	0.5U U	0.5U U	0.5U
Tetrachloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Toluene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Trichloroethene	µg/L	1.17 =	1.54 =	1.62 =	2.71
Trichlorofluoromethane	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Vinyl chloride	µg/L	0.333U U	0.333U U	0.333U U	0.333U
Field Measurements					
Conductivity	µS/cm	1772	1738	1743	1725
Depth to Water	ft	19.34	18.88	19.17	19.64
Dissolved Oxygen	mg/L	0.38	0.38	0.28	1.11
pH	Std Unit	5.36	5.34	4.94	5.03
Temperature	deg C	14.3	15.4	17.3	14.5
Turbidity	NTU	7.76	10.9	5.53	4.77
X616-26G					
Metals					
Beryllium	µg/L	1.15			
Cadmium	µg/L	0.692J			
Chromium	µg/L	8.43J			
Manganese	µg/L	255			
Nickel	µg/L	32.3			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U			
1,1,2,2-Tetrachloroethane	µg/L	0.333U			
1,1,2-Trichloroethane	µg/L	0.333U			
1,1-Dichloroethane	µg/L	0.333U			
1,1-Dichloroethene	µg/L	0.333U			
1,2-Dichlorobenzene	µg/L	0.333U			
1,2-Dichloroethane	µg/L	0.333U			
1,2-Dimethylbenzene	µg/L	0.333U			
1,4-Dichlorobenzene	µg/L	0.333U			
2-Butanone	µg/L	1.67U			
4-Methyl-2-pentanone	µg/L	1.67U			
Acetone	µg/L	1.74U			
Benzene	µg/L	0.333U			
Bromodichloromethane	µg/L	0.333U			
Bromoform	µg/L	0.333U			
Bromomethane	µg/L	0.337U			
Carbon disulfide	µg/L	1.67U			
Carbon tetrachloride	µg/L	0.333U			
Chlorobenzene	µg/L	0.333U			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-26G					
Chloroethane	µg/L	0.333U			
Chloroform	µg/L	0.333U			
Chloromethane	µg/L	0.333U			
cis-1,2-Dichloroethene	µg/L	0.333U			
Dibromochloromethane	µg/L	0.333U			
Ethylbenzene	µg/L	0.333U			
m,p-Xylenes	µg/L	0.5U			
Methylene chloride	µg/L	0.5U			
Tetrachloroethene	µg/L	0.333U			
Toluene	µg/L	0.333U			
trans-1,2-Dichloroethene	µg/L	0.333U			
Trichloroethene	µg/L	0.333U			
Vinyl chloride	µg/L	0.333U			
Field Measurements					
Conductivity	µS/cm	2727			
Depth to Water	ft	8.17			
Dissolved Oxygen	mg/L	3.02			
pH	Std Unit	5.76			
Temperature	deg C	12.2			
Turbidity	NTU	17.3			
X616-28B					
Metals					
Beryllium	µg/L	2.97 =			
Cadmium	µg/L	1.42 =			
Chromium	µg/L	3U U			
Manganese	µg/L	2330 =			
Nickel	µg/L	114 =			
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.42J J			
1,1,2,2-Tetrachloroethane	µg/L	0.333U U			
1,1,2-Trichloroethane	µg/L	0.333U U			
1,1-Dichloroethane	µg/L	0.333U U			
1,1-Dichloroethene	µg/L	0.333U U			
1,2-Dichlorobenzene	µg/L	0.333U U			
1,2-Dichloroethane	µg/L	0.333U U			
1,2-Dimethylbenzene	µg/L	0.333U U			
1,4-Dichlorobenzene	µg/L	0.333U U			
2-Butanone	µg/L	1.67U U			
4-Methyl-2-pentanone	µg/L	1.67U U			
Acetone	µg/L	1.74U U			
Benzene	µg/L	0.333U U			

X-616 Former Chromium Sludge Surface Impoundments – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X616-28B					
Bromodichloromethane	µg/L	0.333U U			
Bromoform	µg/L	0.333U U			
Bromomethane	µg/L	0.337U U			
Carbon disulfide	µg/L	1.67U U			
Carbon tetrachloride	µg/L	0.333U U			
Chlorobenzene	µg/L	0.333U U			
Chloroethane	µg/L	0.333U U			
Chloroform	µg/L	0.333U U			
Chloromethane	µg/L	0.333U U			
cis-1,2-Dichloroethene	µg/L	0.333U U			
Dibromochloromethane	µg/L	0.333U U			
Ethylbenzene	µg/L	0.333U U			
m,p-Xylenes	µg/L	0.5U U			
Methylene chloride	µg/L	0.5U U			
Tetrachloroethene	µg/L	0.333U U			
Toluene	µg/L	0.333U U			
trans-1,2-Dichloroethene	µg/L	0.333U U			
Trichloroethene	µg/L	0.36J J			
Trichlorofluoromethane	µg/L	0.333U U			
Vinyl chloride	µg/L	0.333U U			
Field Measurements					
Conductivity	µS/cm	2772			
Depth to Water	ft	8.18			
Dissolved Oxygen	mg/L	0.27			
pH	Std Unit	4.13			
Temperature	deg C	15			
Turbidity	NTU	9.61			

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ANALYTICAL DATA TABLES
X-740 FORMER WASTE OIL HANDLING FACILITY

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-740 Former Waste Oil Handling Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X740-11G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		0.333U		
1,1-Dichloroethene	µg/L		0.94J		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Benzene	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		0.333U		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		0.5U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
Trichloroethene	µg/L		5.24		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		0.333U		
Field Measurements					
Conductivity	µS/cm		1445		
Depth to Water	ft		4.23		
Dissolved Oxygen	mg/L		0.49		
pH	Std Unit		6.03		
Temperature	deg C		13.4		
Turbidity	NTU		5.37		

X-740 Former Waste Oil Handling Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X740-12B					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		0.333U		
1,1-Dichloroethene	µg/L		0.333U		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Benzene	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		0.333U		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		0.5U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
Trichloroethene	µg/L		0.333U		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		0.333U		
Field Measurements					
Conductivity	µS/cm		622		
Depth to Water	ft		4.72		
Dissolved Oxygen	mg/L		4.11		
pH	Std Unit		6.32		
Temperature	deg C		13.7		
Turbidity	NTU		22.6		

X-740 Former Waste Oil Handling Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter		Third Quarter	Fourth Quarter
X740-26B						
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L		0.333U	0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U	0.333U		
1,1,2-Trichloroethane	µg/L		0.333U	0.333U		
1,1-Dichloroethane	µg/L		2.71	2.61		
1,1-Dichloroethene	µg/L		39.1	39.2		
1,2-Dichlorobenzene	µg/L		0.333U	0.333U		
1,2-Dichloroethane	µg/L		8.37	8.09		
1,2-Dimethylbenzene	µg/L		0.333U	0.333U		
1,4-Dichlorobenzene	µg/L		0.333U	0.333U		
2-Butanone	µg/L		1.67U	1.67U		
4-Methyl-2-pentanone	µg/L		1.67U	1.67U		
Acetone	µg/L		1.74U	1.74U		
Benzene	µg/L		0.333U	0.333U		
Bromodichloromethane	µg/L		0.333U	0.333U		
Bromoform	µg/L		0.333U	0.333U		
Bromomethane	µg/L		0.337U	0.337U		
Carbon disulfide	µg/L		1.67U	1.67U		
Carbon tetrachloride	µg/L		0.333U	0.333U		
Chlorobenzene	µg/L		0.333U	0.333U		
Chloroethane	µg/L		0.333U	0.333U		
Chloroform	µg/L		0.333U	0.333U		
Chloromethane	µg/L		0.333U	0.333U		
cis-1,2-Dichloroethene	µg/L		54	53.6		
Dibromochloromethane	µg/L		0.333U	0.333U		
Ethylbenzene	µg/L		0.333U	0.333U		
m,p-Xylenes	µg/L		0.5U	0.5U		
Methylene chloride	µg/L		0.5U	0.5U		
Tetrachloroethene	µg/L		0.333U	0.333U		
Toluene	µg/L		0.333U	0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U	0.333U		
Trichloroethene	µg/L		85.3	84.7		
Trichlorofluoromethane	µg/L		0.333U	0.333U		
Vinyl chloride	µg/L		0.333U	0.333U		
Field Measurements						
Conductivity	µS/cm		960			
Depth to Water	ft		7.47			
Dissolved Oxygen	mg/L		0.61			
pH	Std Unit		6.76			
Temperature	deg C		14.8			
Turbidity	NTU		11			

X-740 Former Waste Oil Handling Facility – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X740-27G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.56J		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		5.04		
1,1-Dichloroethene	µg/L		26.7		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		4.33		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Benzene	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		66.1		
Dibromochloromethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		0.5U		
Tetrachloroethene	µg/L		1.26		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.41J		
Trichloroethene	µg/L		64.4		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl chloride	µg/L		0.333U		
Field Measurements					
Conductivity	µS/cm		1641		
Depth to Water	ft		9.62		
Dissolved Oxygen	mg/L		0.77		
pH	Std Unit		6.62		
Temperature	deg C		13.7		
Turbidity	NTU		33.7		

ANALYTICAL DATA TABLES
X-530A SWITCHYARD COMPLEX

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-530A Switchyard Complex – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter		Third Quarter	Fourth Quarter
X530A-03G						
Metals						
Chromium	µg/L		21.6	22.9		
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L		0.333U	0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U	0.333U		
1,1,2-Trichloroethane	µg/L		0.333U	0.333U		
1,1-Dichloroethane	µg/L		2.85	2.36		
1,1-Dichloroethene	µg/L		1.03	0.85J		
1,2-Dichlorobenzene	µg/L		0.333U	0.333U		
1,2-Dichloroethane	µg/L		0.333U	0.333U		
1,2-Dimethylbenzene	µg/L		0.333U	0.333U		
1,4-Dichlorobenzene	µg/L		0.333U	0.333U		
2-Butanone	µg/L		1.67U	1.67U		
4-Methyl-2-pentanone	µg/L		1.67U	1.67U		
Acetone	µg/L		1.74U	1.74U		
Benzene	µg/L		0.333U	0.333U		
Bromodichloromethane	µg/L		0.333U	0.333U		
Bromoform	µg/L		0.333U	0.333U		
Bromomethane	µg/L		0.337U	0.337U		
Carbon disulfide	µg/L		1.67U	1.67U		
Carbon tetrachloride	µg/L		0.333U	0.333U		
Chlorobenzene	µg/L		0.333U	0.333U		
Chloroethane	µg/L		0.333U	0.333U		
Chloroform	µg/L		0.333U	0.333U		
Chloromethane	µg/L		0.333U	0.45J		
cis-1,2-Dichloroethene	µg/L		15.3	13		
Dibromochloromethane	µg/L		0.333U	0.333U		
Ethylbenzene	µg/L		0.333U	0.333U		
m,p-Xylenes	µg/L		0.5U	0.5U		
Methylene chloride	µg/L		0.5U	0.5U		
Tetrachloroethene	µg/L		1.42	1.29		
Toluene	µg/L		0.333U	0.333U		
trans-1,2-Dichloroethene	µg/L		1.01	0.81J		
Trichloroethene	µg/L		14.8	13.2		
Trichlorofluoromethane	µg/L		0.333U	0.333U		
Vinyl chloride	µg/L		0.333U	0.333U		
Field Measurements						
Conductivity	µS/cm		665			
Depth to Water	ft		12.6			
Dissolved Oxygen	mg/L		0.91			
pH	Std Unit		6.04			

X-530A Switchyard Complex – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X530A-03G					
Temperature	deg C		14.1		
Turbidity	NTU		7.13		

ANALYTICAL DATA TABLES
X-744N, P, AND Q WAREHOUSES

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 = or 0.16U U

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X-744N, P, and Q Warehouses – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter		Third Quarter	Fourth Quarter
F-21G						
Metals						
Cobalt	µg/L		2.59	2.59		
Nickel	µg/L		22.3	22.1		
Field Measurements						
Conductivity	µS/cm		1301			
Depth to Water	ft		6.38			
Dissolved Oxygen	mg/L		0.77			
pH	Std Unit		6.61			
Temperature	deg C		14.3			
Turbidity	NTU		15.9			

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APPENDIX D

QUADRANT IV SAMPLING RESULTS

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ANALYTICAL DATA TABLES
X-611A FORMER LIME SLUDGE LAGOONS

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-611A Former Lime Sludge Lagoons – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
F-07G					
Metals					
Beryllium	µg/L	0.426U		2.4 =	
Chromium	µg/L	14.9		12.4 =	
Field Measurements					
Conductivity	µS/cm	2065		2197	
Depth to Water	ft	7.58		9.22	
Dissolved Oxygen	mg/L	5.04		2.77	
pH	Std Unit	5.02		5.11	
Temperature	deg C	10.3		17.9	
Turbidity	NTU	9.6		17.7	
F-08B					
Metals					
Beryllium	µg/L	0.262U		0.2U U	0.2U U
Chromium	µg/L	0.882U		3U U	3U U
Field Measurements					
Conductivity	µS/cm	1117		1124	
Depth to Water	ft	6.6		8.62	
Dissolved Oxygen	mg/L	0.91		0.1	
pH	Std Unit	8.4		8.32	
Temperature	deg C	11		20.5	
Turbidity	NTU	5.48		1.07	
X611-01B					
Metals					
Beryllium	µg/L	0.262U		0.25U	
Chromium	µg/L	1.88J		6.5	
Field Measurements					
Conductivity	µS/cm	2010		2220	
Depth to Water	ft	2.87		5.16	
Dissolved Oxygen	mg/L	2.7		3.01	
pH	Std Unit	7.23		6.87	
Temperature	deg C	10.3		20.7	
Turbidity	NTU	6.07		5.06	
X611-02BA					
Metals					
Beryllium	µg/L	0.262U		0.25U	
Chromium	µg/L	1.75J		1U	
Field Measurements					
Conductivity	µS/cm	905		1012	
Depth to Water	ft	15.9		17.25	
Dissolved Oxygen	mg/L	3.6		4.52	
pH	Std Unit	6.31		6.52	

X-611A Former Lime Sludge Lagoons – CY 2025

Location/Analyte	Unit	First Quarter		Second Quarter	Third Quarter	Fourth Quarter
X611-02BA						
Temperature	deg C	13.7			20.8	
Turbidity	NTU	43			10.6	
X611-03G						
Metals						
Beryllium	µg/L	0.262U	0.262U		0.25U	
Chromium	µg/L	1.49J	0.725U		1U	
Field Measurements						
Conductivity	µS/cm	596			693	
Depth to Water	ft	2.45			4.45	
Dissolved Oxygen	mg/L	1.91			0.28	
pH	Std Unit	7.19			7.15	
Temperature	deg C	9.8			19.1	
Turbidity	NTU	19.3			1.68	
X611-04BA						
Metals						
Beryllium	µg/L	0.262U			0.26J	
Chromium	µg/L	1.77J			1U	
Field Measurements						
Conductivity	µS/cm	535			412	
Depth to Water	ft	12.02			14.42	
Dissolved Oxygen	mg/L	5.16			1.11	
pH	Std Unit	6.59			6.01	
Temperature	deg C	12.7			20.9	
Turbidity	NTU	56.5			19.8	

ANALYTICAL DATA TABLES
X-735 LANDFILLS

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-01GA					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		17 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		24700 =		23000 =
Chromium	µg/L		5.15J J		
Cobalt	µg/L		0.3U U		0.337J J
Copper	µg/L		0.3U U		
Iron	µg/L		101 =		238*J J
Lead	µg/L		0.5U U		
Magnesium	µg/L		12800 =		
Manganese	µg/L		2.26J J		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		1.5J J		2.02 =
Potassium	µg/L		1220 =		1150J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		24100 =		21000 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U		
1,1,1-Trichloroethane	µg/L		0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		0.333U		
1,1-Dichloroethene	µg/L		0.333U		
1,2,3-Trichloropropane	µg/L		0.333U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U		
1,2-Dibromoethane	µg/L		0.333U		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dichloropropane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
2-Hexanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-01GA					
Acetone	µg/L		1.74U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U		
Bromochloromethane	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		0.333U		
cis-1,3-Dichloropropene	µg/L		0.333U		
Dibromochloromethane	µg/L		0.333U		
Dibromomethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
Iodomethane	µg/L		1.67U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		2.28J		
Styrene	µg/L		0.333U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.48J		
trans-1,2-Dichloroethene	µg/L		0.333U		
trans-1,3-Dichloropropene	µg/L		0.333U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U		
Trichloroethene	µg/L		0.333U		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl acetate	µg/L		1.67U		
Vinyl chloride	µg/L		0.333U		
Radionuclides					
Technetium-99	pCi/L		2.46U U		
Uranium	µg/L		0.156U U		
Uranium-233/234	pCi/L		0.0322U U		
Uranium-235/236	pCi/L		0.0403U U		
Uranium-238	pCi/L		0.0461U U		
Other Parameters					
Alkalinity	mg/L		50.5		53.8 =
Ammonia	mg/L		0.017U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		8.95U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-01GA					
Chloride	mg/L		37.1		34 =
Dissolved Solids	mg/L		199		194 =
Nitrate/Nitrite	mg/L		0.587		0.68 =
Sulfate	mg/L		43.1		44.7 =
Field Measurements					
Conductivity	µS/cm		340.9		389.7
Depth to Water	ft		24.89		26.3
Dissolved Oxygen	mg/L		1.45		0.8
pH	Std Unit		5.84		6.28
Temperature	deg C		13.2		12.7
Turbidity	NTU		2.27		8.25
X735-02GA					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		12.8 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		19100 =		19000 = 18800 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.3U U		0.3U U 0.3U U
Copper	µg/L		0.3U U		
Iron	µg/L		30U U		30*JU UJ 30*JU UJ
Lead	µg/L		0.5U U		
Magnesium	µg/L		9900 =		
Manganese	µg/L		1U U		
Mercury	µg/L		0.067U U		0.067U U 0.067U U
Nickel	µg/L		1.74J J		2.12 = 2.05 =
Potassium	µg/L		995 =		1010J J 922J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		33300 =		31900 = 31200 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U		
1,1,1-Trichloroethane	µg/L		0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		0.333U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-02GA					
1,1-Dichloroethene	µg/L		0.333U		
1,2,3-Trichloropropane	µg/L		0.333U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U		
1,2-Dibromoethane	µg/L		0.333U		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dichloropropane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
2-Hexanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Acrylonitrile	µg/L		1.67U *U*		
Benzene	µg/L		0.333U		
Bromochloromethane	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		0.333U		
cis-1,3-Dichloropropene	µg/L		0.333U		
Dibromochloromethane	µg/L		0.333U		
Dibromomethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
Iodomethane	µg/L		1.67U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		2.21J		
Styrene	µg/L		0.333U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
trans-1,3-Dichloropropene	µg/L		0.333U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U		
Trichloroethene	µg/L		0.333U		
Trichlorofluoromethane	µg/L		0.333U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-02GA					
Vinyl acetate	µg/L		1.67U		
Vinyl chloride	µg/L		0.333U		
Radionuclides					
Technetium-99	pCi/L		0.361U U		
Uranium	µg/L		0.102U U		
Uranium-233/234	pCi/L		0.00559U U		
Uranium-235/236	pCi/L		0.0214U U		
Uranium-238	pCi/L		0.031U U		
Other Parameters					
Alkalinity	mg/L		56.5		63.5 = 66 =
Ammonia	mg/L		0.017U		0.017U U 0.017U U
Chemical Oxygen Demand (COD)	mg/L		8.95U		
Chloride	mg/L		25.9		25.2 = 25.5 =
Dissolved Solids	mg/L		193		196 = 202 =
Nitrate/Nitrite	mg/L		0.743		0.95 = 0.97 =
Sulfate	mg/L		53.1		53.4 = 53.4 =
Field Measurements					
Conductivity	µS/cm		331.2		404.6
Depth to Water	ft		20.32		22.32
Dissolved Oxygen	mg/L		2.51		2.07
pH	Std Unit		5.85		5.72
Temperature	deg C		13.3		13.1
Turbidity	NTU		0.67		0.72
X735-03GA					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		44.5 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		20900 =		21800 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.3U U		0.3U U
Copper	µg/L		0.3U U		
Iron	µg/L		30U U		30*JU UJ
Lead	µg/L		0.5U U		
Magnesium	µg/L		9930 =		
Manganese	µg/L		6.63 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		1.94J J		2.39 =
Potassium	µg/L		1120 J		1110J J

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-03GA					
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		28600 =		26900 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		5.5J UJ		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333QU UJ		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337QU UJ		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-03GA					
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.82J UJ		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		0.47U U		
Uranium	µg/L		0.0719U U		
Uranium-233/234	pCi/L		-0.00467U U		
Uranium-235/236	pCi/L		0.0000000664U U		
Uranium-238	pCi/L		0.0242U U		
Other Parameters					
Alkalinity	mg/L		32.5 =		35.5 =
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		28.9 =		30.8 =
Dissolved Solids	mg/L		213 =		216 =
Nitrate/Nitrite	mg/L		0.406 =		0.273 =
Sulfate	mg/L		82.3 =		76.9 =
Field Measurements					
Conductivity	µS/cm		382.2		429.6
Depth to Water	ft		23.4		25.5
Dissolved Oxygen	mg/L		1.12		0.4
pH	Std Unit		5.54		6.02
Temperature	deg C		13.6		13.3
Turbidity	NTU		0.19		1.16
X735-04GA					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		70.3 =		
Beryllium	µg/L		0.2U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-04GA					
Cadmium	µg/L		0.3U U		
Calcium	µg/L		1390 =		1330 =
Chromium	µg/L		3U U		
Cobalt	µg/L		1.12 =		1.32 =
Copper	µg/L		0.3U U		
Iron	µg/L		30U U		436*J J
Lead	µg/L		0.5U U		
Magnesium	µg/L		1070 =		
Manganese	µg/L		22 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		7.84 =		8.65 =
Potassium	µg/L		758 J		735J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		21400 =		20800 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		4.34J UJ		
Zinc	µg/L		13.4J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		3.03J UJ		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333QU UJ		
Bromodichloromethane	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-04GA					
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337QU UJ		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		1.44U U		
Uranium	µg/L		0.249JU UJ		
Uranium-233/234	pCi/L		0.0158U U		
Uranium-235/236	pCi/L		0.0286U U		
Uranium-238	pCi/L		0.0792JU UJ		
Other Parameters					
Alkalinity	mg/L		6.5 =		9 =
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		20.1 =		
Chloride	mg/L		3.04 =		3.16 =
Dissolved Solids	mg/L		97 =		109 =
Nitrate/Nitrite	mg/L		1.37 =		1.53 =
Sulfate	mg/L		37.1 =		34.3 =

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-04GA					
Field Measurements					
Conductivity	µS/cm		151.4		138.8
Depth to Water	ft		12.55		17.44
Dissolved Oxygen	mg/L		1.85		2.11
pH	Std Unit		4.95		4.92
Temperature	deg C		13.9		14.7
Turbidity	NTU		3.63		12
X735-05GA					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		43.9 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		28700 =		37200 =
Cobalt	µg/L		3.35 =		11.4 =
Copper	µg/L		0.579J J		
Iron	µg/L		708 =		2430*J J
Lead	µg/L		0.5U U		
Magnesium	µg/L		19200 =		
Manganese	µg/L		34.6 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		3.8 =		16.9 =
Potassium	µg/L		780 =		1450J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		18600 =		25900 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.38J J		
Zinc	µg/L		5.93J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-05GA					
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		4.51J UJ		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		-1.18U U		
Uranium	µg/L		0.298 J		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-05GA					
Uranium-233/234	pCi/L		0.0783JU UJ		
Uranium-235/236	pCi/L		0.00534U U		
Uranium-238	pCi/L		0.0993 =		
Other Parameters					
Alkalinity	mg/L		79 =		66 =
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		9.51J J		
Chloride	mg/L		48 =		71.4 =
Dissolved Solids	mg/L		254 =		363 =
Nitrate/Nitrite	mg/L		0.0595 =		0.085U U
Sulfate	mg/L		66.8 =		83.9 =
Field Measurements					
Conductivity	µS/cm		417.6		652.1
Depth to Water	ft		9.13		11.56
Dissolved Oxygen	mg/L		1.94		0.35
pH	Std Unit		6.06		5.72
Temperature	deg C		11.9		13.9
Turbidity	NTU		31.1		6.1
X735-06GAA					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		18.1 =		
Beryllium	µg/L		0.469J J		
Cadmium	µg/L		1.31 =		
Calcium	µg/L		10900 =		13900 =
Cobalt	µg/L		14.8 =		20.3 =
Copper	µg/L		0.462J J		
Iron	µg/L		33.7J J		30*JU UJ
Lead	µg/L		0.5U U		
Magnesium	µg/L		8360 =		
Manganese	µg/L		312 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		50.4 =		69.1 =
Potassium	µg/L		1840 =		2170J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		24400 =		27200 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		54.4 =		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-06GAA					
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		2.65J UJ		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-06GAA					
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		-1.11U U		
Uranium	µg/L		0.131JU UJ		
Uranium-233/234	pCi/L		0.0132U U		
Uranium-235/236	pCi/L		0.0148U U		
Uranium-238	pCi/L		0.0419JU UJ		
Other Parameters					
Alkalinity	mg/L		3 =		0.725U U
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		25.6 =		30.8 =
Dissolved Solids	mg/L		221 =		224 =
Nitrate/Nitrite	mg/L		0.0901 =		0.085U U
Sulfate	mg/L		82.6 =		100 =
Field Measurements					
Conductivity	µS/cm		309.8		349.6
Depth to Water	ft		13.68		22.11
Dissolved Oxygen	mg/L		1.9		0.41
pH	Std Unit		4.67		4.6
Temperature	deg C		13.1		13.6
Turbidity	NTU		3.18		0.69
X735-13GA					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		37.3 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		8720 J		10800 =
Cobalt	µg/L		0.3U U		0.3U U
Copper	µg/L		0.3U U		
Iron	µg/L		135 =		185*J J
Lead	µg/L		0.5U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-13GA					
Magnesium	µg/L		6730 =		
Manganese	µg/L		1.26J J		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		6.02 =		7.61 =
Potassium	µg/L		1270 =		1340J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		16800 J		18800 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		5.7J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		2.78J UJ		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-13GA					
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		-0.363U U		
Uranium	µg/L		0.178 UJ		
Uranium-233/234	pCi/L		-0.00163U U		
Uranium-235/236	pCi/L		0U U		
Uranium-238	pCi/L		0.0598 UJ		
Other Parameters					
Alkalinity	mg/L		39.5 =		35.5 =
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		9.51J J		
Chloride	mg/L		19.6 =		27 =
Dissolved Solids	mg/L		146 =		131 =
Nitrate/Nitrite	mg/L		1.03 =		0.955 =
Sulfate	mg/L		18 =		29.9 =
Field Measurements					
Conductivity	µS/cm		203.7		229.3
Depth to Water	ft		20.21		28.26
Dissolved Oxygen	mg/L		2.7		2.33
pH	Std Unit		5.75		5.89
Temperature	deg C		14		13.2
Turbidity	NTU		6.57		2.34

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-16B					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		25.6 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		27300 =		28800 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.3U U		
Copper	µg/L		0.409J J		
Iron	µg/L		52.2J J		200 =
Lead	µg/L		0.5U U		
Magnesium	µg/L		14100 =		
Manganese	µg/L		16.9 =		
Mercury	µg/L		0.067U U		
Nickel	µg/L		0.6U U		
Potassium	µg/L		1340 =		1360 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		24000 =		22000 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U		
1,1,1-Trichloroethane	µg/L		0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		0.333U		
1,1-Dichloroethene	µg/L		0.333U		
1,2,3-Trichloropropane	µg/L		0.333U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U		
1,2-Dibromoethane	µg/L		0.333U		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dichloropropane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
2-Hexanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-16B					
Acetone	µg/L		1.74U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U		
Bromochloromethane	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		0.333U		
cis-1,3-Dichloropropene	µg/L		0.333U		
Dibromochloromethane	µg/L		0.333U		
Dibromomethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
Iodomethane	µg/L		1.67U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		2.44J		
Styrene	µg/L		0.333U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.48J		
trans-1,2-Dichloroethene	µg/L		0.333U		
trans-1,3-Dichloropropene	µg/L		0.333U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U		
Trichloroethene	µg/L		0.333U		
Trichlorofluoromethane	µg/L		0.333U		
Vinyl acetate	µg/L		1.67U		
Vinyl chloride	µg/L		0.333U		
Radionuclides					
Technetium-99	pCi/L		-0.564U U		
Uranium	µg/L		0.00348U U		
Uranium-233/234	pCi/L		0.0151U U		
Uranium-235/236	pCi/L		-0.0146U U		
Uranium-238	pCi/L		0.00117U U		
Other Parameters					
Alkalinity	mg/L		52		58.5 =
Ammonia	mg/L		0.017U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		10.8J		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-16B					
Chloride	mg/L		50.1		53.3 =
Dissolved Solids	mg/L		217		
Nitrate/Nitrite	mg/L		0.514		0.456 =
Sulfate	mg/L		39.7		38.7 =
Field Measurements					
Conductivity	µS/cm		397.3		463
Depth to Water	ft		24.69		26.08
Dissolved Oxygen	mg/L		2.61		3.22
pH	Std Unit		5.96		6.39
Temperature	deg C		13.3		11.9
Turbidity	NTU		1.06		1.98
X735-17B					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		72.5 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		34900 =		12000 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.412J J		
Copper	µg/L		0.871J J		
Iron	µg/L		488 =		351 =
Lead	µg/L		0.5U U		
Magnesium	µg/L		18700 =		
Manganese	µg/L		129 =		
Mercury	µg/L		0.067U U		
Nickel	µg/L		0.65J J		
Potassium	µg/L		5010 =		6010 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		42900 =		45400 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U		
1,1,1-Trichloroethane	µg/L		0.333U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U		
1,1,2-Trichloroethane	µg/L		0.333U		
1,1-Dichloroethane	µg/L		0.333U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-17B					
1,1-Dichloroethene	µg/L		0.333U		
1,2,3-Trichloropropane	µg/L		0.333U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U		
1,2-Dibromoethane	µg/L		0.333U		
1,2-Dichlorobenzene	µg/L		0.333U		
1,2-Dichloroethane	µg/L		0.333U		
1,2-Dichloropropane	µg/L		0.333U		
1,2-Dimethylbenzene	µg/L		0.333U		
1,4-Dichlorobenzene	µg/L		0.333U		
2-Butanone	µg/L		1.67U		
2-Hexanone	µg/L		1.67U		
4-Methyl-2-pentanone	µg/L		1.67U		
Acetone	µg/L		1.74U		
Acrylonitrile	µg/L		1.67U *U*		
Benzene	µg/L		0.333U		
Bromochloromethane	µg/L		0.333U		
Bromodichloromethane	µg/L		0.333U		
Bromoform	µg/L		0.333U		
Bromomethane	µg/L		0.337U		
Carbon disulfide	µg/L		1.67U		
Carbon tetrachloride	µg/L		0.333U		
Chlorobenzene	µg/L		0.333U		
Chloroethane	µg/L		0.333U		
Chloroform	µg/L		0.333U		
Chloromethane	µg/L		0.333U		
cis-1,2-Dichloroethene	µg/L		0.333U		
cis-1,3-Dichloropropene	µg/L		0.333U		
Dibromochloromethane	µg/L		0.333U		
Dibromomethane	µg/L		0.333U		
Ethylbenzene	µg/L		0.333U		
Iodomethane	µg/L		1.67U		
m,p-Xylenes	µg/L		0.5U		
Methylene chloride	µg/L		2.24J		
Styrene	µg/L		0.333U		
Tetrachloroethene	µg/L		0.333U		
Toluene	µg/L		0.333U		
trans-1,2-Dichloroethene	µg/L		0.333U		
trans-1,3-Dichloropropene	µg/L		0.333U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U		
Trichloroethene	µg/L		0.333U		
Trichlorofluoromethane	µg/L		0.333U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-17B					
Vinyl acetate	µg/L		1.67U		
Vinyl chloride	µg/L		0.333U		
Radionuclides					
Technetium-99	pCi/L		1.2U U		
Uranium	µg/L		0.212U U		
Uranium-233/234	pCi/L		0.13U U		
Uranium-235/236	pCi/L		0.048U U		
Uranium-238	pCi/L		0.0637U U		
Other Parameters					
Alkalinity	mg/L		224		189* =
Ammonia	mg/L		0.04J		0.017U U
Chemical Oxygen Demand (COD)	mg/L		8.95U		
Chloride	mg/L		17.1		14.7 =
Dissolved Solids	mg/L		261		
Nitrate/Nitrite	mg/L		0.0451J		0.085U U
Sulfate	mg/L		10.4		8.38 =
Field Measurements					
Conductivity	µS/cm		468.2		482.2
Depth to Water	ft		20.75		22.58
Dissolved Oxygen	mg/L		6.22		5.77
pH	Std Unit		6.8		7.6
Temperature	deg C		13.1		12
Turbidity	NTU		1.96		6.73
X735-18B					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		32.7 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		31200 =		33800 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.633J J		
Copper	µg/L		0.334J J		
Iron	µg/L		1200 =		1210 =
Lead	µg/L		0.5U U		
Magnesium	µg/L		13500 =		
Manganese	µg/L		124 =		
Mercury	µg/L		0.067U U		
Nickel	µg/L		0.948J J		
Potassium	µg/L		1980 J		1960 =

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-18B					
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		22700 =		24300 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.78J UJ		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333QU UJ		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337QU UJ		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-18B					
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.66J UJ		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		0.767U U		
Uranium	µg/L		0.0859U U		
Uranium-233/234	pCi/L		-0.00754U U		
Uranium-235/236	pCi/L		-0.0161U U		
Uranium-238	pCi/L		0.0289U U		
Other Parameters					
Alkalinity	mg/L		150 =		151 =
Ammonia	mg/L		0.058 =		0.03J J
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		12.4 =		13.4 =
Dissolved Solids	mg/L		212 =		
Nitrate/Nitrite	mg/L		0.114 =		0.17*U UJ
Sulfate	mg/L		24 =		27.8 =
Field Measurements					
Conductivity	µS/cm		388.3		443.3
Depth to Water	ft		26.61		28.62
Dissolved Oxygen	mg/L		1.15		0.88
pH	Std Unit		6.79		7.11
Temperature	deg C		14.2		13.4
Turbidity	NTU		0.37		1.9
X735-19G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		4.41J J		
Barium	µg/L		51.2 =		
Beryllium	µg/L		0.2U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-19G					
Cadmium	µg/L		0.428J J		
Calcium	µg/L		49000 =		66700 =
Chromium	µg/L		3U U		
Cobalt	µg/L		11.4 =		5.54 =
Copper	µg/L		0.444J J		
Iron	µg/L		6020 =		288*J J
Lead	µg/L		0.5U U		
Magnesium	µg/L		28600 =		
Manganese	µg/L		1920 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		8.45 =		11.2 =
Potassium	µg/L		1770 =		2050J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		63000 =		49500 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		11.4J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-19G					
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		2.23U U		
Uranium	µg/L		0.187U U		
Uranium-233/234	pCi/L		-0.0161U U		
Uranium-235/236	pCi/L		0.0555U U		
Uranium-238	pCi/L		0.0544U U		
Other Parameters					
Alkalinity	mg/L		124 =		97.5* =
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		13.9J J		
Chloride	mg/L		100 =		125 =
Dissolved Solids	mg/L		501 =		533 =
Nitrate/Nitrite	mg/L		0.085U U		0.069 =
Sulfate	mg/L		128 =		146 =

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-19G					
Field Measurements					
Conductivity	µS/cm		797		898
Depth to Water	ft		23.62		26.5
Dissolved Oxygen	mg/L		0.47		1.14
pH	Std Unit		6.14		5.88
Temperature	deg C		13.6		13.5
Turbidity	NTU		3.8		0.87
X735-20B					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2.04J J		
Barium	µg/L		73.6 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		71900 =		75600 =
Chromium	µg/L		3U U		
Cobalt	µg/L		1.38 =		
Copper	µg/L		0.3U U		
Iron	µg/L		3630 =		4250 =
Lead	µg/L		0.5U U		
Magnesium	µg/L		38400 =		
Manganese	µg/L		1690 =		
Nickel	µg/L		4.87 =		
Potassium	µg/L		3640 =		3300 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		47300 =		47100 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-20B					
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		-0.0416U U		
Uranium	µg/L		0.138U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-20B					
Uranium-233/234	pCi/L		-0.00155U U		
Uranium-235/236	pCi/L		0.0162U U		
Uranium-238	pCi/L		0.0438U U		
Other Parameters					
Alkalinity	mg/L		132 =		111 =
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		13.9J J		
Chloride	mg/L		139 =		129 =
Dissolved Solids	mg/L		572 =		
Nitrate/Nitrite	mg/L		0.085U U		0.17*U UJ
Sulfate	mg/L		130 =		138 =
Field Measurements					
Conductivity	µS/cm		990		1125
Depth to Water	ft		24		26.56
Dissolved Oxygen	mg/L		0.19		0.02
pH	Std Unit		6.2		6.04
Temperature	deg C		14		13.6
Turbidity	NTU		3.4		3.61
X735-21G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		69.9 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		53700 =		17200 =
Chromium	µg/L		3U U		
Cobalt	µg/L		16.2 =		8.41 =
Copper	µg/L		0.367J J		
Iron	µg/L		4850 =		144*J J
Lead	µg/L		0.5U U		
Magnesium	µg/L		38600 =		
Manganese	µg/L		6170 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		22.1 =		19.4 =
Potassium	µg/L		468 UJ		505J J
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		5240 =		19200 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-21G					
Zinc	µg/L		12.9J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		2.16J UJ		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333QU UJ		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337QU UJ		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		1.06J UJ		
Styrene	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X735-21G					
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		-1.04U U		
Uranium	µg/L		1.76 =		
Uranium-233/234	pCi/L		0.734 =		
Uranium-235/236	pCi/L		0.0394U U		
Uranium-238	pCi/L		0.584 =		
Other Parameters					
Alkalinity	mg/L		290 =		76* =
Ammonia	mg/L		0.028J J		0.017U U
Chemical Oxygen Demand (COD)	mg/L		15.4J J		
Chloride	mg/L		1.54 =		2.88 =
Dissolved Solids	mg/L		343 =		177 =
Nitrate/Nitrite	mg/L		0.017U U		1.63 =
Sulfate	mg/L		43.6 =		51.6 =
Field Measurements					
Conductivity	µS/cm		656		310.5
Depth to Water	ft		17.05		19.67
Dissolved Oxygen	mg/L		3.5		0.99
pH	Std Unit		6		5.5
Temperature	deg C		12.9		11.2
Turbidity	NTU		0.38		5.92
X737-05B					
Metals					
Antimony	µg/L		1U U 1U U		
Arsenic	µg/L		3.48J J 3.54J J		
Barium	µg/L		38.1 = 38.6 =		
Beryllium	µg/L		0.2U U 0.2U U		
Cadmium	µg/L		0.3U U 0.3U U		
Calcium	µg/L		19900 = 19700 =		20400 =
Chromium	µg/L		3U U 3U U		
Cobalt	µg/L		0.3U U 0.3U U		
Copper	µg/L		0.3U U 0.3U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-05B					
Iron	µg/L		5270 = 5420 =		6490 =
Lead	µg/L		0.5U U 0.5U U		
Magnesium	µg/L		8650 = 8440 =		
Manganese	µg/L		423 = 439 =		
Nickel	µg/L		0.6U U 0.6U U		
Potassium	µg/L		1750 = 1720 =		1880 =
Selenium	µg/L		1.5U U 1.5U U		
Silver	µg/L		0.3U U 0.3U U		
Sodium	µg/L		20800 = 20600 =		21100 =
Thallium	µg/L		0.6U U 0.6U U		
Vanadium	µg/L		3.3U U 3.3U U		
Zinc	µg/L		5.58J J 5.25J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U 0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U 0.333U U		
1,1-Dichloroethane	µg/L		0.333U U 0.333U U		
1,1-Dichloroethene	µg/L		0.333U U 0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U 0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U 0.333U U		
1,2-Dibromoethane	µg/L		0.333U U 0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		
1,2-Dichloroethane	µg/L		0.333U U 0.333U U		
1,2-Dichloropropane	µg/L		0.333U U 0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		
2-Butanone	µg/L		1.67U U 1.67U U		
2-Hexanone	µg/L		1.67U U 1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		
Acetone	µg/L		1.74U U 1.74U U		
Acrylonitrile	µg/L		1.67U U 1.67U U		
Benzene	µg/L		0.333U U 0.333U U		
Bromochloromethane	µg/L		0.333U U 0.333U U		
Bromodichloromethane	µg/L		0.333U U 0.333U U		
Bromoform	µg/L		0.333U U 0.333U U		
Bromomethane	µg/L		0.337U U 0.337U U		
Carbon disulfide	µg/L		1.67U U 1.67U U		
Carbon tetrachloride	µg/L		0.333U U 0.333U U		
Chlorobenzene	µg/L		0.333U U 0.333U U		
Chloroethane	µg/L		0.333U U 0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-05B					
Chloroform	µg/L		0.333U U 0.333U U		
Chloromethane	µg/L		0.333U U 0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U 0.333U U		
Dibromochloromethane	µg/L		0.333U U 0.333U U		
Dibromomethane	µg/L		0.333U U 0.333U U		
Ethylbenzene	µg/L		0.333U U 0.333U U		
Iodomethane	µg/L		1.67U U 1.67U U		
m,p-Xylenes	µg/L		0.5U U 0.5U U		
Methylene chloride	µg/L		0.5U U 0.5U U		
Styrene	µg/L		0.333U U 0.333U U		
Tetrachloroethene	µg/L		0.333U U 0.333U U		
Toluene	µg/L		0.333U U 0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U 0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U 1.67U U		
Trichloroethene	µg/L		0.333U U 0.333U U		
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		
Vinyl acetate	µg/L		1.67U U 1.67U U		
Vinyl chloride	µg/L		0.333U U 0.333U U		
Radionuclides					
Technetium-99	pCi/L		1.1U U -0.739U U		
Uranium	µg/L		0.108U U 0.118U U		
Uranium-233/234	pCi/L		-0.0213U U 0.0179U U		
Uranium-235/236	pCi/L		0.0452U U 0.00588U U		
Uranium-238	pCi/L		0.0292U U 0.0387U U		
Other Parameters					
Alkalinity	mg/L		61.4 = 66 =		72.1 =
Ammonia	mg/L		0.107 = 0.105 =		0.083J UJ
Chemical Oxygen Demand (COD)	mg/L		11.4J J 8.95U U		
Chloride	mg/L		9.14 = 9.99 =		9.21 =
Dissolved Solids	mg/L		190 = 200 =		
Nitrate/Nitrite	mg/L		0.017U U 0.017U U		0.17*U U
Sulfate	mg/L		66.2 = 66.1 =		53.5* =
Field Measurements					
Conductivity	µS/cm		297.5		372.3
Depth to Water	ft		8.97		10.7
Dissolved Oxygen	mg/L		1.34		0.2
pH	Std Unit		6.21		6.21
Temperature	deg C		13.7		16.2
Turbidity	NTU		1.53		2.21

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-06G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2U U		
Barium	µg/L		43.3 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		48500 =		56000 =
Chromium	µg/L		21 =		
Cobalt	µg/L		0.3U U		0.3U U
Copper	µg/L		0.392J J		
Iron	µg/L		30U U		30U U
Lead	µg/L		0.5U U		
Magnesium	µg/L		26600 =		
Manganese	µg/L		5.11 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		2.55 =		2.25 =
Potassium	µg/L		1430 =		1400 =
Selenium	µg/L		10.5 =		
Silver	µg/L		0.3U U		
Sodium	µg/L		23700 =		26300 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-06G					
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		2.29U U		
Uranium	µg/L		0.249JU UJ		
Uranium-233/234	pCi/L		0.0749JU UJ		
Uranium-235/236	pCi/L		0.0312U U		
Uranium-238	pCi/L		0.0788JU UJ		
Other Parameters					
Alkalinity	mg/L		106 =		110 =
Ammonia	mg/L		0.017U U		0.017U U
Chemical Oxygen Demand (COD)	mg/L		11.4J J		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-06G					
Chloride	mg/L		21.5 =		15.1 =
Dissolved Solids	mg/L		380 =		414 =
Nitrate/Nitrite	mg/L		2.34 =		0.905* J
Sulfate	mg/L		154 =		182* J
Field Measurements					
Conductivity	µS/cm		456.1		756
Depth to Water	ft		30.98		32.77
Dissolved Oxygen	mg/L		1.09		1.17
pH	Std Unit		5.76		5.88
Temperature	deg C		13.4		14.5
Turbidity	NTU		0.57		0.95
X737-07B					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		11.1 =		
Barium	µg/L		49.9 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		81300 =		88900 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.3U U		
Copper	µg/L		0.3U U		
Iron	µg/L		9700 =		10700 =
Lead	µg/L		0.5U U		
Magnesium	µg/L		39100 =		
Manganese	µg/L		489 =		
Nickel	µg/L		0.6U U		
Potassium	µg/L		2700 =		2860 =
Selenium	µg/L		1.5U U		
Silver	µg/L		0.3U U		
Sodium	µg/L		40900 =		43600 =
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		3.3U U		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-07B					
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		4J J		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-07B					
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		1.22U U		
Uranium	µg/L		0.0159U U		
Uranium-233/234	pCi/L		-0.0451U U		
Uranium-235/236	pCi/L		-0.000273U U		
Uranium-238	pCi/L		0.00536U U		
Other Parameters					
Alkalinity	mg/L		163 =		161 =
Ammonia	mg/L		0.286 =		0.267J UJ
Chemical Oxygen Demand (COD)	mg/L		9.09J J		
Chloride	mg/L		16.6 =		14.2 =
Dissolved Solids	mg/L		666 =		
Nitrate/Nitrite	mg/L		0.017U U		0.17*U U
Sulfate	mg/L		310 =		312* =
Field Measurements					
Conductivity	µS/cm		925		1130
Depth to Water	ft		31.12		32.91
Dissolved Oxygen	mg/L		0.32		0.11
pH	Std Unit		6.43		6.27
Temperature	deg C		13.4		14.4
Turbidity	NTU		4.98		1.84
X737-09G					
Metals					
Antimony	µg/L		1U U		
Arsenic	µg/L		2.52J J		
Barium	µg/L		132 =		
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Calcium	µg/L		20000 =		20400 =
Chromium	µg/L		3U U		
Cobalt	µg/L		0.984J J		0.861J J
Copper	µg/L		1.05J J		
Iron	µg/L		6870 =		10900 =
Lead	µg/L		0.536J J		
Magnesium	µg/L		9580 =		
Manganese	µg/L		305 =		
Mercury	µg/L		0.067U U		0.067U U
Nickel	µg/L		2.76 =		2.79 =
Potassium	µg/L		3210 =		3250 =
Selenium	µg/L		1.5U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-09G					
Silver	µg/L		0.3U U		
Sodium	µg/L		32500 -		33700 -
Thallium	µg/L		0.6U U		
Vanadium	µg/L		3.3U U		
Zinc	µg/L		7.51J J		
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	µg/L		0.333U U		
1,1,1-Trichloroethane	µg/L		0.333U U		
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		
1,1,2-Trichloroethane	µg/L		0.333U U		
1,1-Dichloroethane	µg/L		0.333U U		
1,1-Dichloroethene	µg/L		0.333U U		
1,2,3-Trichloropropane	µg/L		0.333U U		
1,2-Dibromo-3-chloropropane	µg/L		0.333U U		
1,2-Dibromoethane	µg/L		0.333U U		
1,2-Dichlorobenzene	µg/L		0.333U U		
1,2-Dichloroethane	µg/L		0.333U U		
1,2-Dichloropropane	µg/L		0.333U U		
1,2-Dimethylbenzene	µg/L		0.333U U		
1,4-Dichlorobenzene	µg/L		0.333U U		
2-Butanone	µg/L		1.67U U		
2-Hexanone	µg/L		1.67U U		
4-Methyl-2-pentanone	µg/L		1.67U U		
Acetone	µg/L		1.74U U		
Acrylonitrile	µg/L		1.67U U		
Benzene	µg/L		0.333U U		
Bromochloromethane	µg/L		0.333U U		
Bromodichloromethane	µg/L		0.333U U		
Bromoform	µg/L		0.333U U		
Bromomethane	µg/L		0.337U U		
Carbon disulfide	µg/L		1.67U U		
Carbon tetrachloride	µg/L		0.333U U		
Chlorobenzene	µg/L		0.333U U		
Chloroethane	µg/L		0.333U U		
Chloroform	µg/L		0.333U U		
Chloromethane	µg/L		0.333U U		
cis-1,2-Dichloroethene	µg/L		0.333U U		
cis-1,3-Dichloropropene	µg/L		0.333U U		
Dibromochloromethane	µg/L		0.333U U		
Dibromomethane	µg/L		0.333U U		
Ethylbenzene	µg/L		0.333U U		

X-735 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X737-09G					
Iodomethane	µg/L		1.67U U		
m,p-Xylenes	µg/L		0.5U U		
Methylene chloride	µg/L		0.5U U		
Styrene	µg/L		0.333U U		
Tetrachloroethene	µg/L		0.333U U		
Toluene	µg/L		0.333U U		
trans-1,2-Dichloroethene	µg/L		0.333U U		
trans-1,3-Dichloropropene	µg/L		0.333U U		
trans-1,4-Dichloro-2-butene	µg/L		1.67U U		
Trichloroethene	µg/L		0.333U U		
Trichlorofluoromethane	µg/L		0.333U U		
Vinyl acetate	µg/L		1.67U U		
Vinyl chloride	µg/L		0.333U U		
Radionuclides					
Technetium-99	pCi/L		2.37U U		
Uranium	µg/L		0.0396U U		
Uranium-233/234	pCi/L		0.0692U U		
Uranium-235/236	pCi/L		0.0138U U		
Uranium-238	pCi/L		0.0112U U		
Other Parameters					
Alkalinity	mg/L		102 =		106 =
Ammonia	mg/L		0.088 =		0.077J UJ
Chemical Oxygen Demand (COD)	mg/L		9.09J J		
Chloride	mg/L		29.4 =		29.8 =
Dissolved Solids	mg/L		197 =		208 =
Nitrate/Nitrite	mg/L		0.017U U		0.17*U U
Sulfate	mg/L		29.1 =		28.1* =
Field Measurements					
Conductivity	µS/cm		374.8		463.4
Depth to Water	ft		31.53		31.72
Dissolved Oxygen	mg/L		2.89		2.4
pH	Std Unit		6.52		6.46
Temperature	deg C		14.9		15.6
Turbidity	NTU		26.8		17.3

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ANALYTICAL DATA TABLES
X-734 LANDFILLS

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
RSY-02B					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		160 =		
Nickel	µg/L		0.714J J		
Sodium	µg/L		137000 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		11.3 UJ		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
RSY-02B					
Radionuclides					
Americium-241	pCi/L		0.012U U		
Neptunium-237	pCi/L		-0.0585U U		
Plutonium-238	pCi/L		-0.0357U U		
Plutonium-239/240	pCi/L		-0.0052U U		
Technetium-99	pCi/L		1.34U U		
Uranium	µg/L		0.317U U		
Uranium-233/234	pCi/L		0.0323U U		
Uranium-235/236	pCi/L		-0.0126U U		
Uranium-238	pCi/L		0.107U U		
Other Parameters					
Alkalinity	mg/L		472 =		
Ammonia	mg/L		0.23J J		
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		118 =		
Dissolved Solids	mg/L		1330 =		
Nitrate/Nitrite	mg/L		0.265 =		
Sulfate	mg/L		474 =		
Field Measurements					
Conductivity	µS/cm		1998		1915
Depth to Water	ft		21.06		23.13
Dissolved Oxygen	mg/L		5.43		2.26
pH	Std Unit		7.1		6.62
Temperature	deg C		18		13.7
Turbidity	NTU		30.5		1
X734-01G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		4000 =		
Nickel	µg/L		2.27 =		
Sodium	µg/L		25300 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-01G					
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		4.8J UJ		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		0.0518U U		
Neptunium-237	pCi/L		-0.062U U		
Plutonium-238	pCi/L		-0.0409U U		
Plutonium-239/240	pCi/L		-0.0049U U		
Technetium-99	pCi/L		0.251U U		
Uranium	µg/L		0.0418U U		
Uranium-233/234	pCi/L		-0.00492U U		
Uranium-235/236	pCi/L		0.0244U U		
Uranium-238	pCi/L		0.0103U U		
Other Parameters					
Alkalinity	mg/L		295 =		
Ammonia	mg/L		0.29 =		
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		18 =		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-01G					
Dissolved Solids	mg/L		1200 =		
Nitrate/Nitrite	mg/L		0.121J J		
Sulfate	mg/L		583 =		
Field Measurements					
Conductivity	µS/cm		1548		1515
Depth to Water	ft		58.68		59.45
Dissolved Oxygen	mg/L		2.57		4.54
pH	Std Unit		6.25		6.41
Temperature	deg C		18.8		14.5
Turbidity	NTU		22.3		14.3
X734-02B					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		67.8 =		
Nickel	µg/L		1.83J J		
Sodium	µg/L		378000 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-02B					
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		0.0137U U		
Neptunium-237	pCi/L		-0.0262U U		
Plutonium-238	pCi/L		0.0241U U		
Plutonium-239/240	pCi/L		0.00344U U		
Technetium-99	pCi/L		0.718U U		
Uranium	µg/L		0.0894U U		
Uranium-233/234	pCi/L		0.00593U U		
Uranium-235/236	pCi/L		0.017U U		
Uranium-238	pCi/L		0.0274U U		
Other Parameters					
Alkalinity	mg/L		458 =		
Ammonia	mg/L		3.96 =		
Chemical Oxygen Demand (COD)	mg/L		49 =		
Chloride	mg/L		500 =		
Dissolved Solids	mg/L		1340 =		
Nitrate/Nitrite	mg/L		0.017U U		
Sulfate	mg/L		0.666 =		
Field Measurements					
Conductivity	µS/cm		2618		2375
Depth to Water	ft		16.34		16.8
Dissolved Oxygen	mg/L		2.84		2.87
pH	Std Unit		6.99		6.82
Temperature	deg C		14.2		15.9
Turbidity	NTU		4.1		4.51
X734-03G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
X734-03G						
Manganese	µg/L		335 =			
Nickel	µg/L		1.55J J			
Sodium	µg/L		10800 J			
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U	0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U	0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U	0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U	0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U	0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U	0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U	0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U	0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U	0.333U
2-Butanone	µg/L		1.67U U		1.67U	1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U	1.67U
Acetone	µg/L		2J UJ		1.74U	1.74U
Benzene	µg/L		0.333U U		0.333U	0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U	0.333U
Bromoform	µg/L		0.333U U		0.333U	0.333U
Bromomethane	µg/L		0.337U U		0.337U	0.337U
Carbon disulfide	µg/L		1.67U U		1.67U	1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U	0.333U
Chlorobenzene	µg/L		0.333U U		0.333U	0.333U
Chloroethane	µg/L		0.333U U		0.333U	0.333U
Chloroform	µg/L		0.333U U		0.333U	0.333U
Chloromethane	µg/L		0.333U U		0.333U	0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U	0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U	0.333U
Ethylbenzene	µg/L		0.333U U		0.333U	0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U	0.5U
Methylene chloride	µg/L		0.5U U		0.5U	0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U	0.333U
Toluene	µg/L		0.333U U		0.333U	0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U	0.333U
Trichloroethene	µg/L		0.333U U		0.333U	0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U	0.333U
Vinyl chloride	µg/L		0.333U U		0.333U	0.333U
Radionuclides						
Americium-241	pCi/L		-0.0000733U U			
Neptunium-237	pCi/L		-0.00786U U			
Plutonium-238	pCi/L		0.00403U U			

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-03G					
Plutonium-239/240	pCi/L		0.0121U U		
Technetium-99	pCi/L		-1.31U U		
Uranium	µg/L		2.31 J		
Uranium-233/234	pCi/L		1.42 =		
Uranium-235/236	pCi/L		0.0921JU UJ		
Uranium-238	pCi/L		0.762 =		
Other Parameters					
Alkalinity	mg/L		221 =		
Ammonia	mg/L		0.017U U		
Chemical Oxygen Demand (COD)	mg/L		9.51J J		
Chloride	mg/L		7.04 =		
Dissolved Solids	mg/L		246 =		
Nitrate/Nitrite	mg/L		0.132 =		
Sulfate	mg/L		16.3 =		
Field Measurements					
Conductivity	µS/cm		461.8		460.3
Depth to Water	ft		12.13		13.41
Dissolved Oxygen	mg/L		4.84		6.82
pH	Std Unit		6.98		6.78
Temperature	deg C		9.4		17.6
Turbidity	NTU		3.82		3.77
X734-04G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		3380 =		
Nickel	µg/L		3.22 =		
Sodium	µg/L		68800 J		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-04G					
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		0.0117U U		
Neptunium-237	pCi/L		-0.021U U		
Plutonium-238	pCi/L		0U U		
Plutonium-239/240	pCi/L		0.00642U U		
Technetium-99	pCi/L		0.0385U U		
Uranium	µg/L		1.55 =		
Uranium-233/234	pCi/L		0.631 =		
Uranium-235/236	pCi/L		0.0509U U		
Uranium-238	pCi/L		0.514 =		
Other Parameters					
Alkalinity	mg/L		297 =		
Ammonia	mg/L		0.429 =		
Chemical Oxygen Demand (COD)	mg/L		31.6 =		
Chloride	mg/L		87.7 =		
Dissolved Solids	mg/L		575 =		
Nitrate/Nitrite	mg/L		0.085U U		
Sulfate	mg/L		81.1 =		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-04G					
Field Measurements					
Conductivity	µS/cm		992		1025
Depth to Water	ft		7.23		7.41
Dissolved Oxygen	mg/L		2.77		0.99
pH	Std Unit		6.48		6.65
Temperature	deg C		11.4		16.3
Turbidity	NTU		1.08		3.89
X734-05B					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		20.7 =		
Nickel	µg/L		4.82 =		
Sodium	µg/L		189000 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		10.4 UJ		1.74U
Benzene	µg/L		0.333U U		1.06
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-05B					
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		-0.00451U U		
Neptunium-237	pCi/L		-0.0497U U		
Plutonium-238	pCi/L		0.0101U U		
Plutonium-239/240	pCi/L		0.0101U U		
Technetium-99	pCi/L		0.4U U		
Uranium	µg/L		0.759 UJ		
Uranium-233/234	pCi/L		0.265JU UJ		
Uranium-235/236	pCi/L		0.0289U U		
Uranium-238	pCi/L		0.251 UJ		
Other Parameters					
Alkalinity	mg/L		173 =		
Ammonia	mg/L		1.86 =		
Chemical Oxygen Demand (COD)	mg/L		21.1 =		
Chloride	mg/L		208 =		
Dissolved Solids	mg/L		381 =		
Nitrate/Nitrite	mg/L		0.017U U		
Sulfate	mg/L		1.58 =		
Field Measurements					
Conductivity	µS/cm		1032		602
Depth to Water	ft		10.69		10.11
Dissolved Oxygen	mg/L		4.25		4.86
pH	Std Unit		8.05		8.53
Temperature	deg C		13.1		15.3
Turbidity	NTU		4.6		17.4
X734-06G					
Metals					
Beryllium	µg/L		0.2U U 0.2U U		
Cadmium	µg/L		0.3U U 0.3U U		
Chromium	µg/L		3U U 3U U		
Manganese	µg/L		4930 = 4110 =		
Nickel	µg/L		2.6 = 2.49 =		
Sodium	µg/L		11900 = 15100 =		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-06G					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U 0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U 0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U 0.333U U		0.333U
2-Butanone	µg/L		1.67U U 1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U 1.67U U		1.67U
Acetone	µg/L		1.74U U 1.74U U		1.74U
Benzene	µg/L		0.333U U 0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U 0.333U U		0.333U
Bromoform	µg/L		0.333U U 0.333U U		0.333U
Bromomethane	µg/L		0.337U U 0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U 1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U 0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U 0.333U U		0.333U
Chloroethane	µg/L		0.333U U 0.333U U		0.333U
Chloroform	µg/L		0.333U U 0.333U U		0.333U
Chloromethane	µg/L		0.333U U 0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U 0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U 0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U 0.5U U		0.5U
Methylene chloride	µg/L		0.5U U 0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U 0.333U U		0.333U
Toluene	µg/L		0.333U U 0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U 0.333U U		0.333U
Trichloroethene	µg/L		0.333U U 0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U 0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U 0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		-0.0852U U 0.0105U U		
Neptunium-237	pCi/L		0.0605U U -0.016U U		
Plutonium-238	pCi/L		0.0134U U -0.0036U U		
Plutonium-239/240	pCi/L		0.01U U -0.0288U U		
Technetium-99	pCi/L		0.501U U 0.472U U		
Uranium	µg/L		0.264U U 0.193U U		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-06G					
Uranium-233/234	pCi/L		0.0966U U 0.0361U U		
Uranium-235/236	pCi/L		0.0111U U 0.0216U U		
Uranium-238	pCi/L		0.0871U U 0.0616U U		
Other Parameters					
Alkalinity	mg/L		186 = 207 =		
Ammonia	mg/L		0.963 J 0.706 J		
Chemical Oxygen Demand (COD)	mg/L		13.9J J 33.9 J		
Chloride	mg/L		11.4 = 14.1 =		
Dissolved Solids	mg/L		245 = 262 =		
Nitrate/Nitrite	mg/L		0.126J J 0.085U U		
Sulfate	mg/L		31.3 = 31.2 =		
Field Measurements					
Conductivity	µS/cm		589		572
Depth to Water	ft		11.7		11.88
Dissolved Oxygen	mg/L		4.77		4.1
pH	Std Unit		6.76		6.78
Temperature	deg C		16.9		16.3
Turbidity	NTU		15.6		5.31
X734-10G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		6.1 =		
Nickel	µg/L		2.46 =		
Sodium	µg/L		25700 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-10G					
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		6.3 UJ		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		0.0239U U		
Neptunium-237	pCi/L		0.0745U U		
Plutonium-238	pCi/L		0.0119U U		
Plutonium-239/240	pCi/L		0.0238U U		
Technetium-99	pCi/L		1.89U U		
Uranium	µg/L		0.945 J		
Uranium-233/234	pCi/L		0.218JU UJ		
Uranium-235/236	pCi/L		0.0445U U		
Uranium-238	pCi/L		0.311 =		
Other Parameters					
Alkalinity	mg/L		219 =		
Ammonia	mg/L		0.085U U		
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		13.7 =		
Dissolved Solids	mg/L		513 =		
Nitrate/Nitrite	mg/L		1.22 =		
Sulfate	mg/L		170 =		
Field Measurements					
Conductivity	µS/cm		783		801
Depth to Water	ft		15.08		17.1
Dissolved Oxygen	mg/L		1.62		1.53

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-10G					
pH	Std Unit		6.09		6.02
Temperature	deg C		14.8		15
Turbidity	NTU		8.06		1.08
X734-14G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		50.8 =		
Nickel	µg/L		2.38 =		
Sodium	µg/L		56100 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-14G					
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		0.0466U U		
Neptunium-237	pCi/L		0.0737U U		
Plutonium-238	pCi/L		-0.00358U U		
Plutonium-239/240	pCi/L		0.0179U U		
Technetium-99	pCi/L		0.432U U		
Uranium	µg/L		0.971 =		
Uranium-233/234	pCi/L		0.419 =		
Uranium-235/236	pCi/L		0.0773U U		
Uranium-238	pCi/L		0.315 =		
Other Parameters					
Alkalinity	mg/L		269 =		
Ammonia	mg/L		0.017U U		
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		73.7 =		
Dissolved Solids	mg/L		904 =		
Nitrate/Nitrite	mg/L		0.085U U		
Sulfate	mg/L		303 =		
Field Measurements					
Conductivity	µS/cm		1266		1319
Depth to Water	ft		23.18		23.91
Dissolved Oxygen	mg/L		2.93		3.24
pH	Std Unit		6.31		6.42
Temperature	deg C		16.9		15.3
Turbidity	NTU		35.3		21.5
X734-15G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		2700 =		
Nickel	µg/L		6.73 =		
Sodium	µg/L		39100 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-15G					
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		3.19J UJ		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		-0.00321U U		
Neptunium-237	pCi/L		-0.0293U U		
Plutonium-238	pCi/L		0.016U U		
Plutonium-239/240	pCi/L		-0.00328U U		
Technetium-99	pCi/L		-0.364U U		
Uranium	µg/L		0.197U U		
Uranium-233/234	pCi/L		0.135U U		
Uranium-235/236	pCi/L		0.0403U U		
Uranium-238	pCi/L		0.0601U U		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-15G					
Other Parameters					
Alkalinity	mg/L		715 =		
Ammonia	mg/L		0.855 =		
Chemical Oxygen Demand (COD)	mg/L		13.1J J		
Chloride	mg/L		6.26 =		
Dissolved Solids	mg/L		467 =		
Nitrate/Nitrite	mg/L		0.085U U		
Sulfate	mg/L		94.8 =		
Field Measurements					
Conductivity	µS/cm		763		669
Depth to Water	ft		15.16		16.58
Dissolved Oxygen	mg/L		2.35		4.77
pH	Std Unit		6.38		6.51
Temperature	deg C		16.5		16.2
Turbidity	NTU		21.9		22.5
X734-16G					
Metals					
Beryllium	µg/L		0.2QU UJ		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		803 =		
Nickel	µg/L		0.988J J		
Sodium	µg/L		3850 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		13.7 UJ		21.7
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-16G					
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		-0.0137U U		
Neptunium-237	pCi/L		0.0167U U		
Plutonium-238	pCi/L		0.00371U U		
Plutonium-239/240	pCi/L		-0.00812U U		
Technetium-99	pCi/L		1.5U U		
Uranium	µg/L		0.179U U		
Uranium-233/234	pCi/L		0.024U U		
Uranium-235/236	pCi/L		0.0267U U		
Uranium-238	pCi/L		0.056U U		
Other Parameters					
Alkalinity	mg/L		386 =		
Ammonia	mg/L		2.43 =		
Chemical Oxygen Demand (COD)	mg/L		10.9J J		
Chloride	mg/L		1.41 =		
Dissolved Solids	mg/L		387 =		
Nitrate/Nitrite	mg/L		0.085U U		
Sulfate	mg/L		1.01 =		
Field Measurements					
Conductivity	µS/cm		810		777
Depth to Water	ft		8.36		15.98
Dissolved Oxygen	mg/L		4.22		4.59
pH	Std Unit		6.93		6.71
Temperature	deg C		15.8		16.3
Turbidity	NTU		75		226

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-18G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		318 =		
Nickel	µg/L		5.25 =		
Sodium	µg/L		24600 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		1.97J UJ		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-18G					
Radionuclides					
Americium-241	pCi/L		-0.0125U U		
Neptunium-237	pCi/L		-0.0474U U		
Plutonium-238	pCi/L		-0.00015U U		
Plutonium-239/240	pCi/L		0.0148U U		
Technetium-99	pCi/L		0.0208U U		
Uranium	µg/L		1.46 =		
Uranium-233/234	pCi/L		0.552 =		
Uranium-235/236	pCi/L		0.0261U U		
Uranium-238	pCi/L		0.487 =		
Other Parameters					
Alkalinity	mg/L		316 =		
Ammonia	mg/L		0.017U U		
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		24.8 =		
Dissolved Solids	mg/L		816 =		
Nitrate/Nitrite	mg/L		0.085U U		
Sulfate	mg/L		125 =		
Field Measurements					
Conductivity	µS/cm		1255		1332
Depth to Water	ft		35.24		36.65
Dissolved Oxygen	mg/L		2.51		4.77
pH	Std Unit		6.51		6.65
Temperature	deg C		16.7		14.4
Turbidity	NTU		19.4		9.81
X734-20G					
Metals					
Beryllium	µg/L		0.2U U		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		165 =		
Nickel	µg/L		2.88 =		
Sodium	µg/L		8880 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-20G					
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		0.0118U U		
Neptunium-237	pCi/L		-0.0396U U		
Plutonium-238	pCi/L		0U U		
Plutonium-239/240	pCi/L		0.0169U U		
Technetium-99	pCi/L		0.869U U		
Uranium	µg/L		0.392JU UJ		
Uranium-233/234	pCi/L		0.0726U U		
Uranium-235/236	pCi/L		0.0555U U		
Uranium-238	pCi/L		0.123JU UJ		
Other Parameters					
Alkalinity	mg/L		114 =		
Ammonia	mg/L		0.017U U		
Chemical Oxygen Demand (COD)	mg/L		8.95U U		
Chloride	mg/L		5.85 =		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-20G					
Dissolved Solids	mg/L		183 =		
Nitrate/Nitrite	mg/L		0.085U U		
Sulfate	mg/L		55.3 =		
Field Measurements					
Conductivity	µS/cm		412.6		332.5
Depth to Water	ft		6.19		6.26
Dissolved Oxygen	mg/L		5.66		5.97
pH	Std Unit		6.93		6.29
Temperature	deg C		15.3		15.9
Turbidity	NTU		7.58		1.35
X734-22G					
Metals					
Beryllium	µg/L		0.2QU UJ		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		
Manganese	µg/L		44.3 =		
Nickel	µg/L		6.17 =		
Sodium	µg/L		53800 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-22G					
cis-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		0.333U U		0.333U
Radionuclides					
Americium-241	pCi/L		0.00484U U		
Neptunium-237	pCi/L		-0.0215U U		
Plutonium-238	pCi/L		-0.000227U U		
Plutonium-239/240	pCi/L		0.0281U U		
Technetium-99	pCi/L		0.801U U		
Uranium	µg/L		0.913 =		
Uranium-233/234	pCi/L		0.533 =		
Uranium-235/236	pCi/L		-0.0197U U		
Uranium-238	pCi/L		0.307 =		
Other Parameters					
Alkalinity	mg/L		210 =		
Ammonia	mg/L		0.085U U		
Chemical Oxygen Demand (COD)	mg/L		15.3J J		
Chloride	mg/L		80.1 =		
Dissolved Solids	mg/L		585 =		
Nitrate/Nitrite	mg/L		0.459 =		
Sulfate	mg/L		148 =		
Field Measurements					
Conductivity	µS/cm		933		973
Depth to Water	ft		23.6		24.96
Dissolved Oxygen	mg/L		2.7		2.56
pH	Std Unit		6.26		6.2
Temperature	deg C		17.1		13.6
Turbidity	NTU		42		27
X734-23G					
Metals					
Beryllium	µg/L		0.2QU UJ		
Cadmium	µg/L		0.3U U		
Chromium	µg/L		3U U		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-23G					
Manganese	µg/L		8700 =		
Nickel	µg/L		11.9 =		
Sodium	µg/L		34900 =		
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L		0.333U U		0.333U
1,1,2,2-Tetrachloroethane	µg/L		0.333U U		0.333U
1,1,2-Trichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethane	µg/L		0.333U U		0.333U
1,1-Dichloroethene	µg/L		0.333U U		0.333U
1,2-Dichlorobenzene	µg/L		0.333U U		0.333U
1,2-Dichloroethane	µg/L		0.333U U		0.333U
1,2-Dimethylbenzene	µg/L		0.333U U		0.333U
1,4-Dichlorobenzene	µg/L		0.333U U		0.333U
2-Butanone	µg/L		1.67U U		1.67U
4-Methyl-2-pentanone	µg/L		1.67U U		1.67U
Acetone	µg/L		1.74U U		1.74U
Benzene	µg/L		0.333U U		0.333U
Bromodichloromethane	µg/L		0.333U U		0.333U
Bromoform	µg/L		0.333U U		0.333U
Bromomethane	µg/L		0.337U U		0.337U
Carbon disulfide	µg/L		1.67U U		1.67U
Carbon tetrachloride	µg/L		0.333U U		0.333U
Chlorobenzene	µg/L		0.333U U		0.333U
Chloroethane	µg/L		0.333U U		0.333U
Chloroform	µg/L		0.333U U		0.333U
Chloromethane	µg/L		0.333U U		0.333U
cis-1,2-Dichloroethene	µg/L		1.9 =		1.29
Dibromochloromethane	µg/L		0.333U U		0.333U
Ethylbenzene	µg/L		0.333U U		0.333U
m,p-Xylenes	µg/L		0.5U U		0.5U
Methylene chloride	µg/L		0.5U U		0.5U
Tetrachloroethene	µg/L		0.333U U		0.333U
Toluene	µg/L		0.333U U		0.333U
trans-1,2-Dichloroethene	µg/L		0.333U U		0.333U
Trichloroethene	µg/L		0.333U U		0.333U
Trichlorofluoromethane	µg/L		0.333U U		0.333U
Vinyl chloride	µg/L		1.33 =		1.32
Radionuclides					
Americium-241	pCi/L		-0.00938U U		
Neptunium-237	pCi/L		-0.0111U U		
Plutonium-238	pCi/L		0.00783U U		

X-734 Landfills – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X734-23G					
Plutonium-239/240	pCi/L		0.0117U U		
Technetium-99	pCi/L		-0.622U U		
Uranium	µg/L		0.262U U		
Uranium-233/234	pCi/L		0.0198U U		
Uranium-235/236	pCi/L		0.000637U U		
Uranium-238	pCi/L		0.0881U U		
Other Parameters					
Alkalinity	mg/L		138 =		
Ammonia	mg/L		1.29 =		
Chemical Oxygen Demand (COD)	mg/L		33.1 =		
Chloride	mg/L		68.9 =		
Dissolved Solids	mg/L		271 =		
Nitrate/Nitrite	mg/L		0.11J J		
Sulfate	mg/L		17.6 =		
Field Measurements					
Conductivity	µS/cm		610		589
Depth to Water	ft		22.5		22.65
Dissolved Oxygen	mg/L		2.91		0.99
pH	Std Unit		6		5.86
Temperature	deg C		19		13.5
Turbidity	NTU		82.3		10.9

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ANALYTICAL DATA TABLES
X-533 FORMER SWITCHYARD COMPLEX

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-533 Former Switchyard Complex – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter		Third Quarter	Fourth Quarter		
F-03G								
Metals								
Cadmium	µg/L		45.4	45.9		54 =	54	=
Chromium	µg/L		31.8	37.6		15.7 J	48.6	J
Cobalt	µg/L		98.1	97.1		109 =	108	=
Nickel	µg/L		488	484		543 =	571	=
Field Measurements								
Conductivity	µS/cm		1027			1267		
Depth to Water	ft		7.76			11.11		
Dissolved Oxygen	mg/L		7.43			6.83		
pH	Std Unit		4.41			4.12		
Temperature	deg C		14			14.3		
Turbidity	NTU		5.46			8.99		
TCP-01G								
Metals								
Cadmium	µg/L		13.1			5.92 =		
Chromium	µg/L		3U			3U U		
Cobalt	µg/L		32.7			19.6 =		
Nickel	µg/L		140			83.5 =		
Field Measurements								
Conductivity	µS/cm		475			451.6		
Depth to Water	ft		7.02			8.28		
Dissolved Oxygen	mg/L		6.79			7.52		
pH	Std Unit		4.45			5.5		
Temperature	deg C		13.2			12.7		
Turbidity	NTU		15.4			18.5		
X533-03G								
Metals								
Cadmium	µg/L		18.4			36.2 =		
Chromium	µg/L		3U			3U U		
Cobalt	µg/L		38.1			68.6 =		
Nickel	µg/L		206			379 =		
Field Measurements								
Conductivity	µS/cm		709			1246		
Depth to Water	ft		13.93			14.4		
Dissolved Oxygen	mg/L		3.26			1.71		
pH	Std Unit		5.59			4.91		
Temperature	deg C		14.3			15.6		
Turbidity	NTU		5.75			10.2		

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ANALYTICAL DATA TABLES
X-230J6 NORTHEAST HOLDING POND AND NORTHEAST DRAINAGE DITCH

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **=** or 0.16U ***U***

Note that wells F-07G and F-08B provide monitoring for both the X-611A Former Lime Sludge Lagoons and the X-230J6 Holding Pond.

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X-230J6 Northeast Holding Pond and Northeast Drainage Ditch – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
F-07G					
Metals					
Arsenic	µg/L			2.54J J	
Thallium	µg/L			1.75J J	
Vanadium	µg/L			3.3U U	
Radionuclides					
Uranium	µg/L			31.3 =	
Uranium-233/234	pCi/L			9.62 =	
Uranium-235/236	pCi/L			0.5 =	
Uranium-238	pCi/L			10.5 =	
Field Measurements					
Conductivity	µS/cm			2197	
Depth to Water	ft			9.22	
Dissolved Oxygen	mg/L			2.77	
pH	Std Unit			5.11	
Temperature	deg C			17.9	
Turbidity	NTU			17.7	
F-08B					
Metals					
Arsenic	µg/L			2U U 2U U	
Thallium	µg/L			0.6U U 0.6U U	
Vanadium	µg/L			3.3U U 3.3U U	
Radionuclides					
Uranium	µg/L			0.124U U 0.53JU UJ	
Uranium-233/234	pCi/L			-0.0193U U 0.237JU UJ	
Uranium-235/236	pCi/L			0.0841U U 0.077U U	
Uranium-238	pCi/L			0.0286U U 0.166JU UJ	
Field Measurements					
Conductivity	µS/cm			1124	
Depth to Water	ft			8.62	
Dissolved Oxygen	mg/L			0.1	
pH	Std Unit			8.32	
Temperature	deg C			20.5	
Turbidity	NTU			1.07	
X230J6-01G					
Metals					
Cobalt	µg/L			2.99 2.85	
Field Measurements					
Conductivity	µS/cm			2184	
Depth to Water	ft			10.19	
Dissolved Oxygen	mg/L			7.91	
pH	Std Unit			7.89	

X-230J6 Northeast Holding Pond and Northeast Drainage Ditch – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
X230J6-01G					
Temperature	deg C			28.42	
Turbidity	NTU			2.46	

ANALYTICAL DATA TABLES
X-342 FLUORINE BUILDINGS

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 - or 0.16U ***U***

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X-342 Fluorine Buildings – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
F-09G					
Metals					
Cobalt	µg/L			276	
Field Measurements					
Conductivity	µS/cm			1377	
Depth to Water	ft			11.73	
Dissolved Oxygen	mg/L			3.11	
pH	Std Unit			6.21	
Temperature	deg C			17.9	
Turbidity	NTU			39.4	
X342C-01G					
Metals					
Cobalt	µg/L			11.8	
Field Measurements					
Conductivity	µS/cm			481.5	
Depth to Water	ft			15.19	
Dissolved Oxygen	mg/L			0.19	
pH	Std Unit			4.95	
Temperature	deg C			16.9	
Turbidity	NTU			9.15	
X745F-01G					
Metals					
Cobalt	µg/L			0.843J	0.818J
Field Measurements					
Conductivity	µS/cm			343.8	
Depth to Water	ft			12.13	
Dissolved Oxygen	mg/L			0.08	
pH	Std Unit			5.25	
Temperature	deg C			15	
Turbidity	NTU			4.31	

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ANALYTICAL DATA TABLES
X-630 FORMER RECIRCULATING COOLING WATER COMPLEX

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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X-630 Former Recirculating Cooling Water Complex – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
X630-02G						
Metals						
Arsenic	µg/L				2U	2U
Chromium	µg/L				15.1	14.1
Field Measurements						
Conductivity	µS/cm				758	
Depth to Water	ft				12.21	
Dissolved Oxygen	mg/L				3.9	
pH	Std Unit				7.04	
Temperature	deg C				13.5	
Turbidity	NTU				1.47	

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APPENDIX E

OTHER IGWMP MONITORING SAMPLING RESULTS

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ANALYTICAL DATA TABLES
SURFACE WATER

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Estimated
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 **-** or 0.16U ***U***

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Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
BRC-SW01					
Metals					
Arsenic	µg/L				2U U
Cobalt	µg/L				0.347J J
Iron	µg/L				887 =
Manganese	µg/L				14.5 =
Thallium	µg/L				0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U		0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U		0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U		0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U		0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U		0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U		0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U		0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U		0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U		0.333U U	0.333U U
2-Butanone	µg/L	1.67U		1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U		1.67U U	1.67U U
Acetone	µg/L	1.74U		1.74U U	1.74U U
Benzene	µg/L	0.333U		0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U		0.333U U	0.333U U
Bromoform	µg/L	0.333U		0.333U U	0.333U U
Bromomethane	µg/L	0.337U		0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U		1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U		0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U		0.333U U	0.333U U
Chloroethane	µg/L	0.333U		0.333U U	0.333U U
Chloroform	µg/L	0.333U		0.333U U	0.333U U
Chloromethane	µg/L	0.333U		0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U		0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U		0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U		0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U		0.5U U	0.5U U
Methylene chloride	µg/L	0.5U		0.5U U	0.5U U
Tetrachloroethene	µg/L	0.333U		0.333U U	0.333U U
Toluene	µg/L	0.333U		0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U		0.333U U	0.333U U
Trichloroethene	µg/L	0.333U		0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U		0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U		0.333U U	0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
BRC-SW01					
Radionuclides					
Americium-241	pCi/L				0.00769U U
Neptunium-237	pCi/L				-0.0154U U
Plutonium-238	pCi/L				0.00606U U
Plutonium-239/240	pCi/L				0.00795U U
Technetium-99	pCi/L	5.36JU UJ		2.2U U	1.37U U
Uranium	µg/L	5.81 J		0.742 UJ	0.565JU UJ
Uranium-233/234	pCi/L	3.24 =		0.311JU UJ	0.558 =
Uranium-235/236	pCi/L	0.147JU UJ		-0.0177U U	0.0617U U
Uranium-238	pCi/L	1.93 =		0.25 UJ	0.18JU UJ
Field Measurements					
Conductivity	µS/cm	1374		390.6	458
pH	Std Unit	7.46		6.39	7.36
Temperature	deg C	1.6		20.7	12.8
Turbidity	NTU	16.1		42.2	22.9
BRC-SW02					
Metals					
Arsenic	µg/L		2.3J J		2U U
Cobalt	µg/L		0.574J J		0.3U U
Iron	µg/L		602 =		157 =
Manganese	µg/L		104 =		44.3 =
Thallium	µg/L		0.6U U		0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67QU UJ	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
BRC-SW02					
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333QU UJ	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	0.5U	0.5U U	3.49J UJ	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U UJ	0.333U U
Radionuclides					
Americium-241	pCi/L		-0.00299U U		0.0165U U
Neptunium-237	pCi/L		0.0243U U		0.0745U U
Plutonium-238	pCi/L		0U U		0.016U U
Plutonium-239/240	pCi/L		-0.00472U U		0.0179U U
Technetium-99	pCi/L	0.796U U	2.34U U	1.74U U	-1.14U U
Uranium	µg/L	1.36 =	1.58 =	0.345 =	0.306U U
Uranium-233/234	pCi/L	0.619 =	0.902 =	0.333 =	0.00478U U
Uranium-235/236	pCi/L	-0.00733U U	0.0901U U	0.02U U	-0.00564U U
Uranium-238	pCi/L	0.457 =	0.518 =	0.113 =	0.103U U
Field Measurements					
Conductivity	µS/cm	1065	788	429	447
pH	Std Unit	6.92	8.03	7.41	6.26
Temperature	deg C	3.9	21.7	23.2	13.2
Turbidity	NTU	41.8	6.58	5.31	4.14
BRC-SW05					
Metals					
Arsenic	µg/L		2.75J J		2U U
Cobalt	µg/L		0.668J J		0.719J J
Iron	µg/L		724 =		220 =
Manganese	µg/L		147 =		97.4 =
Thallium	µg/L		0.6U U		0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
BRC-SW05					
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67QU UJ	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333QU UJ	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	0.5U	0.5U U	3.36J UJ	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U UJ	0.333U U
Radionuclides					
Americium-241	pCi/L		0.0131U U		0.011U U
Neptunium-237	pCi/L		0.00218U U		-0.0163U U
Plutonium-238	pCi/L		0U U		0.0242U U
Plutonium-239/240	pCi/L		-0.03U U		0.0151U U
Technetium-99	pCi/L	1.12U U	-0.0687U U	0.239U U	-1.29U U
Uranium	µg/L	0.693 UJ	1.28 J	0.685 J	0.523 UJ
Uranium-233/234	pCi/L	0.53 =	0.528 =	0.459 =	0.125JU UJ
Uranium-235/236	pCi/L	0.0221U U	0.0671JU UJ	0.0381JU UJ	0.0423U U
Uranium-238	pCi/L	0.23 UJ	0.421 =	0.224 =	0.169 UJ

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
BRC-SW05					
Field Measurements					
Conductivity	µS/cm	867	807	577	438
pH	Std Unit	7.32	8.14	7.45	7.29
Temperature	deg C	2.8	20.9	24.4	13.1
Turbidity	NTU	47.3	7.89	8.11	7.03
EDD-SW01					
Metals					
Arsenic	µg/L		5U U		2U U
Cobalt	µg/L		1U U		0.3U U
Iron	µg/L		191 =		273 =
Manganese	µg/L		29.3 =		15.7 =
Thallium	µg/L		5U U		0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.56J J	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.56J J	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.37J	0.57J J	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	22.4	0.82J J	0.333U U	0.87J J
Dibromochloromethane	µg/L	0.333U	0.97J J	0.56J J	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	0.5U	0.5U U	6.62J UJ	0.95J UJ
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
EDD-SW01					
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	62.7	1.95 =	0.44J J	1.44 =
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Polycyclic Aromatic Hydrocarbons					
2-Methylnaphthalene	ug/L		0.314U U		0.299*U U
Acenaphthene	ug/L		0.314U U		0.299*U U
Anthracene	ug/L		0.314U U		0.299*U U
Benz(a)anthracene	ug/L		0.314U U		0.299*U U
Benzo(a)pyrene	ug/L		0.314U U		0.299*U U
Benzo(b)fluoranthene	ug/L		0.314U U		0.299*U U
Benzo(ghi)perylene	ug/L		0.314U U		0.299*U U
Benzo(k)fluoranthene	ug/L		0.314U U		0.299*U U
Chrysene	ug/L		0.314U U		0.299*U U
Dibenz(a,h)anthracene	ug/L		0.314U U		0.299*U U
Fluoranthene	ug/L		0.314U U		0.299*U U
Fluorene	ug/L		0.314U U		0.299*U U
Indeno(1,2,3-cd)pyrene	ug/L		0.314U U		0.299*U U
Naphthalene	ug/L		0.314U U		0.299*U U
Pyrene	ug/L		0.314U U		0.299*U U
Radionuclides					
Americium-241	pCi/L		0.00676U U		-0.00095U U
Neptunium-237	pCi/L		0.0206U U		0.0293U U
Plutonium-238	pCi/L		0.0132U U		0.0201U U
Plutonium-239/240	pCi/L		0.00879U U		0.025U U
Technetium-99	pCi/L	26.9 =	4.25U U	2.29U U	4.91 =
Uranium	µg/L	3.15 =	0.787 =	0.497 J	2.36 =
Uranium-233/234	pCi/L	4.81 =	1.17 =	0.634 =	2.87 =
Uranium-235/236	pCi/L	0.301 =	0.0333U U	0.0615JU UJ	0.259 =
Uranium-238	pCi/L	1.01 =	0.26 =	0.157 =	0.753 =
Field Measurements					
Conductivity	µS/cm	858	346.4	348.2	552
pH	Std Unit	7.8	8.27	7.97	8.02
Temperature	deg C	12	24.3	18.8	11.7
Turbidity	NTU	9.57	9.69	16.7	17
LBC-SW01					
Metals					
Arsenic	µg/L		5U U		2U U 2U U
Cobalt	µg/L		1U U		0.3U U 0.3U U
Iron	µg/L		150 =		106 J 177 J

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-SW01					
Manganese	µg/L		21.1 =		7.7 = 7.89 =
Thallium	µg/L		5U U		0.6U U 0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U 1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U 1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U	1.74U U 1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Bromodichloromethane	µg/L	0.333U	0.35J J	0.333U U	0.333U U 0.333U U
Bromoform	µg/L	0.333U	0.44J J	0.333U U	0.333U U 0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U 0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U U	1.67U U 1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Chloroform	µg/L	0.333U	0.41J J	0.333U U	0.333U U 0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
cis-1,2-Dichloroethene	µg/L	1.6	0.65J J	0.333U U	0.5J J 0.51J J
Dibromochloromethane	µg/L	0.333U	0.6J J	0.4J J	0.333U U 0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U 0.5U U
Methylene chloride	µg/L	0.5U	0.5U U	7.83J UJ	0.76J UJ 0.84J UJ
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Trichloroethene	µg/L	4.43	1.26 =	0.333U U	0.82J J 0.78J J
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Polycyclic Aromatic Hydrocarbons					
2-Methylnaphthalene	ug/L		0.302U U		0.323*U U 0.306*U U
Acenaphthene	ug/L		0.302U U		0.323*U U 0.306*U U
Anthracene	ug/L		0.302U U		0.323*U U 0.306*U U
Benz(a)anthracene	ug/L		0.302U U		0.323*U U 0.306*U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-SW01					
Benzo(a)pyrene	ug/L		0.302U U		0.323*U U 0.306*U U
Benzo(b)fluoranthene	ug/L		0.302U U		0.323*U U 0.306*U U
Benzo(ghi)perylene	ug/L		0.302U U		0.323*U U 0.306*U U
Benzo(k)fluoranthene	ug/L		0.302U U		0.323*U U 0.306*U U
Chrysene	ug/L		0.302U U		0.323*U U 0.306*U U
Dibenz(a,h)anthracene	ug/L		0.302U U		0.323*U U 0.306*U U
Fluoranthene	ug/L		0.302U U		0.323*U U 0.306*U U
Fluorene	ug/L		0.302U U		0.323*U U 0.306*U U
Indeno(1,2,3-cd)pyrene	ug/L		0.302U U		0.323*U U 0.306*U U
Naphthalene	ug/L		0.302U U		0.323*U U 0.306*U U
Pyrene	ug/L		0.302U U		0.323*U U 0.306*U U
Radionuclides					
Americium-241	pCi/L		-0.00332U U		-0.0072U U 0.0334U U
Neptunium-237	pCi/L		-0.0099U U		0.00157U U -0.013U U
Plutonium-238	pCi/L		0.02U U		-0.0115U U -0.00586U U
Plutonium-239/240	pCi/L		0.00333U U		-0.00573U U 0.0208U U
Technetium-99	pCi/L	10.4 =	1.49U U	1.72U U	5.05 = 4.98 =
Uranium	µg/L	0.946 =	0.834 =	0.375JU UJ	2.22 J 2.71 J
Uranium-233/234	pCi/L	1.41 =	1.22 =	0.416 =	2.45 = 2.05 =
Uranium-235/236	pCi/L	0.0373U U	0.0677U U	0.0403U U	0.104JU UJ 0.167JU UJ
Uranium-238	pCi/L	0.312 =	0.27 =	0.12JU UJ	0.73 = 0.885 =
Field Measurements					
Conductivity	µS/cm	505	353	350.1	513
pH	Std Unit	7.43	7.81	7.77	7.75
Temperature	deg C	12	22.9	18.2	10.8
Turbidity	NTU	6.67	5.91	2.13	3.71
LBC-SW02					
Metals					
Arsenic	µg/L		5U U		2U U
Cobalt	µg/L		1U U		0.3U U
Iron	µg/L		127 =		158 =
Manganese	µg/L		12.2 =		20.2 =
Thallium	µg/L		5U U		0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-SW02					
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U 1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U 1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U 1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U 0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U U 1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	1.04	0.333U U	0.333U U 0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U 0.5U U	0.5U U
Methylene chloride	µg/L	0.5U	0.5U U	7.08J UJ 6.84J UJ	0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Trichloroethene	µg/L	2.48	0.51J J	0.333U U 0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Polycyclic Aromatic Hydrocarbons					
2-Methylnaphthalene	ug/L		0.296U U		0.309*U U
Acenaphthene	ug/L		0.296U U		0.309*U U
Anthracene	ug/L		0.296U U		0.309*U U
Benz(a)anthracene	ug/L		0.296U U		0.309*U U
Benzo(a)pyrene	ug/L		0.296U U		0.309*U U
Benzo(b)fluoranthene	ug/L		0.296U U		0.309*U U
Benzo(ghi)perylene	ug/L		0.296U U		0.309*U U
Benzo(k)fluoranthene	ug/L		0.296U U		0.309*U U
Chrysene	ug/L		0.296U U		0.309*U U
Dibenz(a,h)anthracene	ug/L		0.296U U		0.309*U U
Fluoranthene	ug/L		0.296U U		0.309*U U
Fluorene	ug/L		0.296U U		0.309*U U
Indeno(1,2,3-cd)pyrene	ug/L		0.296U U		0.309*U U
Naphthalene	ug/L		0.296U U		0.309*U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-SW02					
Pyrene	ug/L		0.296U U		0.309*U U
Radionuclides					
Americium-241	pCi/L		0.00653U U		-0.00746U U
Neptunium-237	pCi/L		0.00359U U		0.0249U U
Plutonium-238	pCi/L		0.0131U U		0.0123U U
Plutonium-239/240	pCi/L		0.0219U U		0.00747U U
Technetium-99	pCi/L	9.48 =	1.33U U	3.9JU UJ 2.24U U	4.54 =
Uranium	µg/L	1.04 =	0.752 UJ	0.345 = 0.22JU UJ	1.66 J
Uranium-233/234	pCi/L	1.25 =	0.98 =	0.363 = 0.402 =	2.67 =
Uranium-235/236	pCi/L	0.0516U U	0.0477U U	-0.004U U 0.0454U U	0.172JU UJ
Uranium-238	pCi/L	0.342 =	0.246 UJ	0.116 = 0.0668JU UJ	0.53 =
Field Measurements					
Conductivity	µS/cm	512	362	355.7	537
pH	Std Unit	7.53	7.31	7.72	7.64
Temperature	deg C	11.8	21.9	17	9.5
Turbidity	NTU	10.9	5.7	1.42	2.58
LBC-SW03					
Metals					
Arsenic	µg/L		5U U		2U U
Cobalt	µg/L		1U U		0.3U U
Iron	µg/L		136 =		110 =
Manganese	µg/L		12.2 =		22.1 =
Thallium	µg/L		5U U		0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U 1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U 1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U 1.74U	1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U 0.333U	0.333U U	0.333U U	0.333U U
Bromomethane	µg/L	0.337U 0.337U	0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U 1.67U	1.67U U	1.67U U	1.67U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
LBC-SW03									
Carbon tetrachloride	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloroform	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Dibromochloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Ethylbenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
m,p-Xylenes	µg/L	0.5U	0.5U	0.5U	U	0.5U	U	0.5U	U
Methylene chloride	µg/L	0.5U	0.5U	0.5U	U	6.73J	UJ	0.5U	U
Tetrachloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Toluene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Trichloroethene	µg/L	0.42J	0.36J	0.333U	U	0.333U	U	0.333U	U
Trichlorofluoromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Vinyl chloride	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Polycyclic Aromatic Hydrocarbons									
2-Methylnaphthalene	ug/L			0.3U	U			0.3*U	UJ
Acenaphthene	ug/L			0.3U	U			0.3*U	UJ
Anthracene	ug/L			0.3U	U			0.3*U	UJ
Benz(a)anthracene	ug/L			0.3U	U			0.3*U	UJ
Benzo(a)pyrene	ug/L			0.3U	U			0.3*U	UJ
Benzo(b)fluoranthene	ug/L			0.3U	U			0.3*U	UJ
Benzo(ghi)perylene	ug/L			0.3U	U			0.3*U	UJ
Benzo(k)fluoranthene	ug/L			0.3U	U			0.3*U	UJ
Chrysene	ug/L			0.3U	U			0.3*U	UJ
Dibenz(a,h)anthracene	ug/L			0.3U	U			0.3*U	UJ
Fluoranthene	ug/L			0.3U	U			0.3*U	UJ
Fluorene	ug/L			0.3U	U			0.3*U	UJ
Indeno(1,2,3-cd)pyrene	ug/L			0.3U	U			0.3*U	UJ
Naphthalene	ug/L			0.3U	U			0.3*U	UJ
Pyrene	ug/L			0.3U	U			0.3*U	UJ
Radionuclides									
Americium-241	pCi/L			0.00654U	U			0.029U	U
Neptunium-237	pCi/L			-0.0556U	U			-0.00324U	U
Plutonium-238	pCi/L			0.0166U	U			0.0116U	U
Plutonium-239/240	pCi/L			0.0124U	U			0.0266U	U
Technetium-99	pCi/L	7.43JU	UJ	3.84U	U	4.11U	U	1.52U	U	4.36	=
Uranium	µg/L	0.625	J	0.529	=	0.668	UJ	0.372	UJ	2.28	J
Uranium-233/234	pCi/L	0.766	=	0.697	=	0.958	=	0.406	=	2.71	=
Uranium-235/236	pCi/L	0.0437JU	UJ	0.0312U	U	0.0276U	U	0.0764JU	UJ	0.138JU	UJ

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
LBC-SW03					
Uranium-238	pCi/L	0.203 = 0.173 =	0.22 UJ	0.113JU UJ	0.744 =
Field Measurements					
Conductivity	µS/cm	445.1	417	370	724
pH	Std Unit	7.72	7.41	7.66	7.34
Temperature	deg C	12.3	21.2	15.9	7
Turbidity	NTU	13.6	6.11	1.82	2
NHP-SW01					
Metals					
Arsenic	µg/L		5U U 5U U		2U U
Cobalt	µg/L		1.12J J 1.02J J		0.3U U
Iron	µg/L		217 J 634 J		161 =
Manganese	µg/L		89.1 = 81.8 =		22 =
Thallium	µg/L		5U U 5U U		0.6U U
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
2-Butanone	µg/L	1.67U	1.67U U 1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U 1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.74U	1.74U U 1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.67J J 0.65J J	0.41J J	0.81J J
Bromoform	µg/L	0.333U	0.84J J 0.76J J	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U 0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U 1.67U U	1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Chloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.71J J 0.64J J	0.48J J	0.81J J
Chloromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.56J	1.13 = 1.02 =	0.58J J	0.88J J
Ethylbenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U 0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	0.5U	0.5U U 0.5U U	6.53J UJ	0.5U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
NHP-SW01					
Tetrachloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Polycyclic Aromatic Hydrocarbons					
2-Methylnaphthalene	ug/L		0.335U U 0.318U U		0.331*U U
Acenaphthene	ug/L		0.335U U 0.318U U		0.331*U U
Anthracene	ug/L		0.335U U 0.318U U		0.331*U U
Benz(a)anthracene	ug/L		0.335U U 0.318U U		0.331*U U
Benzo(a)pyrene	ug/L		0.335U U 0.318U U		0.331*U U
Benzo(b)fluoranthene	ug/L		0.335U U 0.318U U		0.331*U U
Benzo(ghi)perylene	ug/L		0.335U U 0.318U U		0.331*U U
Benzo(k)fluoranthene	ug/L		0.335U U 0.318U U		0.331*U U
Chrysene	ug/L		0.335U U 0.318U U		0.331*U U
Dibenz(a,h)anthracene	ug/L		0.335U U 0.318U U		0.331*U U
Fluoranthene	ug/L		0.335U U 0.318U U		0.331*U U
Fluorene	ug/L		0.335U U 0.318U U		0.331*U U
Indeno(1,2,3-cd)pyrene	ug/L		0.335U U 0.318U U		0.331*U U
Naphthalene	ug/L		0.335U U 0.318U U		0.331*U U
Pyrene	ug/L		0.335U U 0.318U U		0.331*U U
Radionuclides					
Americium-241	pCi/L		-0.0035U U -0.0208U U		0.0236U U
Neptunium-237	pCi/L		-0.018U U 0.0392U U		0.0293U U
Plutonium-238	pCi/L		-0.0158U U 0.0191U U		0.0526U U
Plutonium-239/240	pCi/L		0.00788U U 0.0191U U		-0.00215U U
Technetium-99	pCi/L	-1.05U U	-0.954U U 0.92U U	0.652U U	0.128U U
Uranium	µg/L	2.99 J	2.02 = 1.74 =	1.11 =	2.44 =
Uranium-233/234	pCi/L	1.25 =	0.754 = 0.646 =	0.58 =	1.16 =
Uranium-235/236	pCi/L	0.0763JU UJ	0.0396U U 0.00487U U	0.0373U U	0.107 =
Uranium-238	pCi/L	0.995 =	0.672 = 0.585 =	0.366 =	0.802 =
Field Measurements					
Conductivity	µS/cm	722	444	405	485
pH	Std Unit	7.5	7.72	7.05	7.23
Temperature	deg C	12	19	16	9.5
Turbidity	NTU	16.8	11.8	10.9	3.42
UND-SW01					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
UND-SW01					
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U 1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U 1.67U U
Acetone	µg/L	1.74U	1.74U U	1.74U U	1.74U U 1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U 0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67QU UJ	1.67U U 1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333QU UJ	0.333U U 0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.39J J	0.333U U 0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U 0.5U U
Methylene chloride	µg/L	0.5U	1.94J UJ	3.24J UJ	0.5U U 0.5U U
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Trichloroethene	µg/L	1.12	2.74 J	3.04 =	0.333U U 0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U 0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U UJ	0.333U U 0.333U U
Radionuclides					
Americium-241	pCi/L		0.0358U U		0.00296U U -0.00504U U
Neptunium-237	pCi/L		0.0503U U		-0.0326U U -0.0545U U
Plutonium-238	pCi/L		-0.00659U U		0.00282U U 0.00967U U
Plutonium-239/240	pCi/L		-0.000064U U		0.0101U U 0.00882U U
Technetium-99	pCi/L	-1.35U U	-0.324U U	-0.244U U	1.06U U -2.04U U
Uranium	µg/L	1.5 =	1.25 =	1.82 J	0.424JU UJ 0.494JU UJ
Uranium-233/234	pCi/L	0.832 =	0.617 =	0.748 =	0.113U U 0.203JU UJ
Uranium-235/236	pCi/L	0.00829U U	0.0187U U	0.0656 UJ	0.0293U U 0.109JU UJ
Uranium-238	pCi/L	0.503 =	0.417 =	0.601 =	0.138JU UJ 0.149JU UJ

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
UND-SW01									
Field Measurements									
Conductivity	µS/cm	1098		869		758		138	
pH	Std Unit	7.72		7.65		7.43		7.72	
Temperature	deg C	6.2		17.1		21.1		7.9	
Turbidity	NTU	6.51		2.75		10.3		111	
UND-SW02									
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,1-Dichloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,1-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,2-Dichloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
2-Butanone	µg/L	1.67U	1.67U	1.67U	U	1.67U	U	1.67U	U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U	1.67U	U	1.67U	U	1.67U	U
Acetone	µg/L	1.74U	1.74U	1.74U	U	1.74U	U	6.1	=
Benzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Bromodichloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Bromoform	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Bromomethane	µg/L	0.337U	0.337U	0.337U	U	0.337U	U	0.337U	U
Carbon disulfide	µg/L	1.67U	1.67U	1.67U	U	1.67QU	UJ	1.67U	U
Carbon tetrachloride	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chlorobenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloroethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloroform	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Chloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333QU	UJ	0.333U	U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Dibromochloromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Ethylbenzene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
m,p-Xylenes	µg/L	0.5U	0.5U	0.5U	U	0.5U	U	0.5U	U
Methylene chloride	µg/L	0.5U	0.5U	3.92J	UJ	3.29J	UJ	0.5U	U
Tetrachloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Toluene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Trichloroethene	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Trichlorofluoromethane	µg/L	0.333U	0.333U	0.333U	U	0.333U	U	0.333U	U
Vinyl chloride	µg/L	0.333U	0.333U	0.333U	U	0.333U	UJ	0.333U	U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
UND-SW02					
Radionuclides					
Americium-241	pCi/L		0.0101U U		0.0442U U
Neptunium-237	pCi/L		-0.0166U U		-0.0361U U
Plutonium-238	pCi/L		-0.00364U U		0.0145U U
Plutonium-239/240	pCi/L		-0.00714U U		0.0299U U
Technetium-99	pCi/L	0.175U U	-0.112U U -1.55U U	2.05U U	-0.552U U
Uranium	µg/L	0.597 UJ	0.616JU UJ 1.38 =	1.38 =	0.602 =
Uranium-233/234	pCi/L	0.25JU UJ	0.284JU UJ 0.803 =	0.423 =	0.224 =
Uranium-235/236	pCi/L	0U U	0.027U U 0.0435U U	0.0128U U	0.0524U U
Uranium-238	pCi/L	0.201 UJ	0.203JU UJ 0.458 =	0.461 =	0.194 =
Field Measurements					
Conductivity	µS/cm	226	685	478	285
pH	Std Unit	8.18	8.28	7.8	7.36
Temperature	deg C	2.6	18	24.9	7.7
Turbidity	NTU	11.5	3.28	3.06	113
WDD-SW01					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333*U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333*U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333*U U
2-Butanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Acetone	µg/L	2.22J	1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.52J	0.333U U	0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U	0.333*U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.69J	0.35J J	0.333U U	0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WDD-SW01					
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	2.59J	0.5U U	1.2J J	1.67J UJ
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U	0.333*U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U	0.333U U
Radionuclides					
Americium-241	pCi/L		0.004U U		0.0619U U
Neptunium-237	pCi/L		-0.0206U U		-0.00582U U
Plutonium-238	pCi/L		-0.00331U U		0.0122U U
Plutonium-239/240	pCi/L		-0.00973U U		0.0367U U
Technetium-99	pCi/L	5.4JU UJ	2.25U U	0.393U U	0.257U U
Uranium	µg/L	2.98 J	3.31 =	2.22 J	2.56 =
Uranium-233/234	pCi/L	1.89 =	0.922 =	1.21 =	1.24 =
Uranium-235/236	pCi/L	0.0421JU UJ	0.0534U U	0.0548JU UJ	0.0522U U
Uranium-238	pCi/L	0.996 J	1.1 =	0.737 =	0.854 =
Field Measurements					
Conductivity	µS/cm	876	760	613	603
pH	Std Unit	7.54	8.09	7.95	8.09
Temperature	deg C	6.2	16.8	22.8	13
Turbidity	NTU	6.53	3.4	9.18	7.59
WDD-SW02					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U UJ	0.333*U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333*U U
1,2-Dichloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333*U U
2-Butanone	µg/L	1.67U	1.67U U 1.67U U	1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U 1.67U U	1.67U U	1.67U U
Acetone	µg/L	1.92J	1.74U U 1.74U U	1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WDD-SW02					
Bromomethane	µg/L	0.337U	0.337U U 0.337U U	0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U 1.67U U	1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U UJ	0.333*U U
Chloroethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U 0.5U U	0.5U U	0.5U U
Methylene chloride	µg/L	2.3J	0.5U U 0.5U U	1.32J J	1.81J UJ
Tetrachloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U 0.333U U	0.333U UJ	0.333*U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U 0.333U UJ	0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U 0.333U U	0.333U U	0.333U U
Radionuclides					
Americium-241	pCi/L		0.0037U U 0.0101U U		0.00829U U
Neptunium-237	pCi/L		0.00253U U -0.0239U U		-0.0296U U
Plutonium-238	pCi/L		0.0177U U -0.0224U U		0.0111U U
Plutonium-239/240	pCi/L		-0.0000709U U -0.00913U U		0.0111U U
Technetium-99	pCi/L	0.619U U	2.77U U 0.614U U	-0.978U U	0.541U U
Uranium	µg/L	2.62 =	2.99 = 2.4 =	2.05 J	2.08 =
Uranium-233/234	pCi/L	1.33 =	1.36 = 0.995 =	0.89 =	0.854 =
Uranium-235/236	pCi/L	0.0268U U	0.0554U U 0.0551JU U	0.0336JU UJ	0.0627U U
Uranium-238	pCi/L	0.878 =	0.996 = 0.799 =	0.684 =	0.689 =
Field Measurements					
Conductivity	µS/cm	1479	1620	1266	968
pH	Std Unit	7.75	7.93	7.93	8.08
Temperature	deg C	8.2	17	21.4	14.4
Turbidity	NTU	6.22	4.86	11	4.51
WDD-SW03					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,1,2,2-Tetrachloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,1,2-Trichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333*U U
1,1-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,1-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,2-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333*U UJ

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WDD-SW03					
1,2-Dichloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,2-Dimethylbenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
1,4-Dichlorobenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333*U UJ
2-Butanone	µg/L	1.67U	1.67U U	1.67U U 1.67U U	1.67U U
4-Methyl-2-pentanone	µg/L	1.67U	1.67U U	1.67U U 1.67U U	1.67U U
Acetone	µg/L	2.66J	1.74U U	1.74U U 1.74U U	1.74U U
Benzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Bromodichloromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Bromoform	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Bromomethane	µg/L	0.337U	0.337U U	0.337U U 0.337U U	0.337U U
Carbon disulfide	µg/L	1.67U	1.67U U	1.67U U 1.67U U	1.67U U
Carbon tetrachloride	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Chlorobenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333*U U
Chloroethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Chloroform	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Chloromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
cis-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Dibromochloromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Ethylbenzene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
m,p-Xylenes	µg/L	0.5U	0.5U U	0.5U U 0.5U U	0.5U U
Methylene chloride	µg/L	2.24J	1.15J UJ	0.5U U 0.5U U	1.62J UJ
Tetrachloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Toluene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333*U U
trans-1,2-Dichloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Trichloroethene	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Trichlorofluoromethane	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Vinyl chloride	µg/L	0.333U	0.333U U	0.333U U 0.333U U	0.333U U
Radionuclides					
Americium-241	pCi/L		0.00724U U		-0.0122U U
Neptunium-237	pCi/L		-0.0463U U		-0.0304U U
Plutonium-238	pCi/L		0.012U U		0U U
Plutonium-239/240	pCi/L		-0.00827U U		0.0292U U
Technetium-99	pCi/L	4.28U U	-0.235U U	3.72JU UJ 0.472U U	0.265U U
Uranium	µg/L	2.35 J	2.15 =	1.53 J 1.56 J	3.46 =
Uranium-233/234	pCi/L	1.29 =	1.19 =	0.741 = 0.611 =	1.31 =
Uranium-235/236	pCi/L	0.116JU UJ	0.0152U U	0.0527JU UJ 0.06JU UJ	0.000699U U
Uranium-238	pCi/L	0.771 =	0.72 =	0.507 = 0.516 =	1.16 =
Field Measurements					
Conductivity	µS/cm	876	841	522	654
pH	Std Unit	7.13	8	6.99	8.13
Temperature	deg C	6	20	24.3	11.1

Surface Water – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
WDD-SW03					
Turbidity	NTU	5.44	3.46	6.99	37.7

ANALYTICAL DATA TABLES
WATER SUPPLY MONITORING PROGRAM

Laboratory Data Qualifiers

*	A quality control analyte recovery is outside specified acceptance criteria.
D	The reported result is from a dilution.
J	Non-radionuclides: the reported value is estimated. Radionuclides: the reported value is greater than the minimum detectable activity but less than the requested reporting limit.
Q	One or more quality control criteria failed.
U	Undetected

Analytical results for duplicate samples (when collected) are provided in smaller type following the results for the regular sample.

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

A proportion of data collected in accordance with the IGWMP is validated. Validation qualifiers are provided in ***smaller, bold, italic, green type*** following the sample result and laboratory data qualifier (if qualified). For example: 100 = or 0.16U U

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Water Supply – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
RES-012					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U		0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U U		0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U U		0.333U U	
1,1-Dichloroethane	µg/L	0.333U U		0.333U U	
1,1-Dichloroethene	µg/L	0.333U U		0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U U		0.333U U	
1,2-Dichloroethane	µg/L	0.333U U		0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U U		0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U U		0.333U U	
2-Butanone	µg/L	1.67U U		1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U U		1.67U U	
Acetone	µg/L	3.78J UJ		1.74U U	
Benzene	µg/L	0.333U U		0.333U U	
Bromodichloromethane	µg/L	0.333U U		0.333U U	
Bromoform	µg/L	0.333U U		0.333U U	
Bromomethane	µg/L	0.337U U		0.337U U	
Carbon disulfide	µg/L	1.67U U		1.67U U	
Carbon tetrachloride	µg/L	0.333U U		0.333U U	
Chlorobenzene	µg/L	0.333U U		0.333U U	
Chloroethane	µg/L	0.333U U		0.333U U	
Chloroform	µg/L	0.333U U		0.333U U	
Chloromethane	µg/L	0.333U U		0.333U U	
cis-1,2-Dichloroethene	µg/L	0.333U U		0.333U U	
Dibromochloromethane	µg/L	0.333U U		0.333U U	
Ethylbenzene	µg/L	0.333U U		0.333U U	
m,p-Xylenes	µg/L	0.5U U		0.5U U	
Methylene chloride	µg/L	4.26J UJ		0.5U U	
Tetrachloroethene	µg/L	0.333U U		0.333U U	
Toluene	µg/L	0.333U U		0.333U U	
trans-1,2-Dichloroethene	µg/L	0.333U U		0.333U U	
Trichloroethene	µg/L	0.333U U		0.333U U	
Trichlorofluoromethane	µg/L	0.333U U		0.333U U	
Vinyl chloride	µg/L	0.333U U		0.333U U	
Radionuclides					
Alpha activity	pCi/L	0.868JU UJ		0.749JU UJ	
Americium-241	pCi/L	0.0143U U		0.00679U U	
Neptunium-237	pCi/L	0.0107U U		-0.016U U	
Plutonium-238	pCi/L	0.00954U U		0.0233U U	
Plutonium-239/240	pCi/L	0.0238U U		-0.00332U U	
Technetium-99	pCi/L	-1.42U U		1.68U U	

Water Supply – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
RES-012					
Uranium	µg/L	1.27 =		1.26 =	
Uranium-233/234	pCi/L	0.571 =		0.382 =	
Uranium-235/236	pCi/L	0.00737U U		0.0246U U	
Uranium-238	pCi/L	0.425 =		0.421 =	
Field Measurements					
Conductivity	µS/cm	1456		623	
pH	Std Unit	7.24		7.25	
Temperature	deg C	13.82		16.9	
Turbidity	NTU	1.29		1.23	
RES-014					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U U	0.333U U	0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U U	0.333U U	0.333U U	
1,1-Dichloroethane	µg/L	0.333U U	0.333U U	0.333U U	
1,1-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	
1,2-Dichloroethane	µg/L	0.333U U	0.333U U	0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	
2-Butanone	µg/L	1.67U U	1.67U U	1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U U	1.67U U	1.67U U	
Acetone	µg/L	3.78J UJ	1.74U UJ	1.74U U	
Benzene	µg/L	0.333U U	0.333U U	0.333U U	
Bromodichloromethane	µg/L	0.333U U	0.333U U	0.333U U	
Bromoform	µg/L	0.333U U	0.333U U	0.333U U	
Bromomethane	µg/L	0.337U U	0.337U U	0.337U U	
Carbon disulfide	µg/L	1.67U U	1.67U U	1.67U U	
Carbon tetrachloride	µg/L	0.333U U	0.333U U	0.333U U	
Chlorobenzene	µg/L	0.333U U	0.333U U	0.333U U	
Chloroethane	µg/L	0.333U U	0.333U U	0.333U U	
Chloroform	µg/L	0.333U U	0.333U U	0.333U U	
Chloromethane	µg/L	0.333U U	0.333U U	0.333U U	
cis-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	
Dibromochloromethane	µg/L	0.333U U	0.333U U	0.333U U	
Ethylbenzene	µg/L	0.333U U	0.333U U	0.333U U	
m,p-Xylenes	µg/L	0.5U U	0.5U U	0.5U U	
Methylene chloride	µg/L	4.23J UJ	5.18 UJ	0.5U U	
Tetrachloroethene	µg/L	0.333U U	0.333U U	0.333U U	
Toluene	µg/L	0.333U U	0.333U U	0.333U U	
trans-1,2-Dichloroethene	µg/L	0.333U U	0.333U U	0.333U U	

Water Supply – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
RES-014					
Trichloroethene	µg/L	0.333U U	0.333U U	0.333U U	
Trichlorofluoromethane	µg/L	0.333U U	0.333U U	0.333U U	
Vinyl chloride	µg/L	0.333U U	0.333U U	0.333U U	
Radionuclides					
Alpha activity	pCi/L	0.53JU UJ	0.423U U	0.256U U	
Americium-241	pCi/L	0.016U U	0.0101U U	-0.0127U U	
Neptunium-237	pCi/L	-0.0339U U	0.0205U U	-0.0154U U	
Plutonium-238	pCi/L	0.00539U U	0.00495U U	0.0144U U	
Plutonium-239/240	pCi/L	0.0162U U	0U U	0.00719U U	
Technetium-99	pCi/L	0.345U U	-0.805U U	-0.623U U	
Uranium	µg/L	0.18U U	0.173U U	0U U	
Uranium-233/234	pCi/L	0.0374U U	0.0443U U	-0.00791U U	
Uranium-235/236	pCi/L	0U U	0.0081U U	-0.014U U	
Uranium-238	pCi/L	0.0607U U	0.0569U U	-0.0107U U	
Field Measurements					
Conductivity	µS/cm	632		52	
pH	Std Unit	5.73		5.87	
Temperature	deg C	10.1		17.7	
Turbidity	NTU	6.07		3.29	
RES-015					
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.333U U		0.333U U 0.333U U	
1,1,2,2-Tetrachloroethane	µg/L	0.333U U		0.333U U 0.333U U	
1,1,2-Trichloroethane	µg/L	0.333U U		0.333U U 0.333U U	
1,1-Dichloroethane	µg/L	0.333U U		0.333U U 0.333U U	
1,1-Dichloroethene	µg/L	0.333U U		0.333U U 0.333U U	
1,2-Dichlorobenzene	µg/L	0.333U U		0.333U U 0.333U U	
1,2-Dichloroethane	µg/L	0.333U U		0.333U U 0.333U U	
1,2-Dimethylbenzene	µg/L	0.333U U		0.333U U 0.333U U	
1,4-Dichlorobenzene	µg/L	0.333U U		0.333U U 0.333U U	
2-Butanone	µg/L	1.67U U		1.67U U 1.67U U	
4-Methyl-2-pentanone	µg/L	1.67U U		1.67U U 1.67U U	
Acetone	µg/L	3.33J UJ		1.74U U 1.74U U	
Benzene	µg/L	0.333U U		0.333U U 0.333U U	
Bromodichloromethane	µg/L	7.36 =		13.5 = 13.5 =	
Bromoform	µg/L	0.95J J		0.69J J 0.68J J	
Bromomethane	µg/L	0.337U U		0.337U U 0.337U U	
Carbon disulfide	µg/L	1.67U U		1.67U U 1.67U U	
Carbon tetrachloride	µg/L	0.333U U		0.333U U 0.333U U	
Chlorobenzene	µg/L	0.333U U		0.333U U 0.333U U	
Chloroethane	µg/L	0.333U U		0.333U U 0.333U U	

Water Supply – CY 2025

Location/Analyte	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
RES-015					
Chloroform	µg/L	7.22 =		21.3 = 21.2 =	
Chloromethane	µg/L	0.333U U		0.333U U 0.333U U	
cis-1,2-Dichloroethene	µg/L	0.333U U		0.333U U 0.333U U	
Dibromochloromethane	µg/L	5.97 =		6.54 = 6.53 =	
Ethylbenzene	µg/L	0.333U U		0.333U U 0.333U U	
m,p-Xylenes	µg/L	0.5U U		0.5U U 0.5U U	
Methylene chloride	µg/L	2.45J UJ		0.5U U 0.5U U	
Tetrachloroethene	µg/L	0.333U U		0.333U U 0.333U U	
Toluene	µg/L	0.333U U		0.333U U 0.333U U	
trans-1,2-Dichloroethene	µg/L	0.333U U		0.333U U 0.333U U	
Trichloroethene	µg/L	0.333U U		0.333U U 0.333U U	
Trichlorofluoromethane	µg/L	0.333U U		0.333U U 0.333U U	
Vinyl chloride	µg/L	0.333U U		0.333U U 0.333U U	
Radionuclides					
Alpha activity	pCi/L	1.41U U		1.36JU UJ 1.55 =	
Americium-241	pCi/L	-0.00996U U		0.00354U U 0.000985U U	
Neptunium-237	pCi/L	0.00588U U		-0.0272U U -0.0138U U	
Plutonium-238	pCi/L	0.00963U U		0.0000000025U U -0.017U U	
Plutonium-239/240	pCi/L	0U U		0.005U U 0.000000035 U	
Technetium-99	pCi/L	-1.76U U		2.14U U -2.18U U	
Uranium	µg/L	0.987 =		0.839 J 1.66 J	
Uranium-233/234	pCi/L	0.475 =		0.371 = 0.552 =	
Uranium-235/236	pCi/L	0.035U U		0.0423U U 0.0307U U	
Uranium-238	pCi/L	0.326 =		0.276 J 0.555 J	
Field Measurements					
Conductivity	µS/cm	1675		705	
pH	Std Unit	7.43		7.46	
Temperature	deg C	8.76		21.8	
Turbidity	NTU	1.98		1.17	

APPENDIX F

STATISTICAL EVALUATIONS OF X-749A AND X-735 LANDFILLS

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1. STATISTICAL EVALUATION OF X-749A COMPLIANCE WELLS - 2025

The statistical evaluation includes Gallia compliance wells X749A-03G, X749A-17G, X749A-18G, and X749A-19G that were downgradient of the X-749A Landfill in 2025.

The detection monitoring program for the X-749A Landfill was changed in July 2012 to be consistent with current Ohio EPA regulations (OAC 3745-30-08 effective February 1, 2008). Ammonia, calcium, iron, nitrate/nitrite, and potassium were added to the statistical evaluation program, and total dissolved solids was deleted from the program. Therefore, the current statistical evaluation parameters are alkalinity, ammonia, calcium, chloride, iron, nitrate/nitrite (as nitrogen), potassium, sodium, and sulfate.

1.1 INTRA-WELL CONTROL CHARTS

Intra-well Shewhart-CUSUM (cumulative summation) control charts are constructed using historical baseline data for each compliance well. For well X749A-03G, eight samples representing previous sampling events from 1998 through 2001 were initially used to represent the baseline. The historical baseline for wells X749A-17G, X749A-18G, and X749A-19G was developed in 2012 using eight samples representing previous sampling events from 2008 through 2011. For the monitoring parameters added in 2012 (ammonia, calcium, iron, nitrate/nitrite, and potassium), control charts were constructed using eight samples representing previous sampling events between 2003 and 2013, dependent upon the data available for each well. The baseline data for all four compliance wells have been periodically updated and were most recently updated in 2025 to include data collected through 2024.

Control charts are constructed showing two control limits calculated using the baseline compliance well data. The CUSUM control chart is designed to indicate a "long-term" trend or accumulation above baseline and is used as an internal indicator for the early detection of gradual concentration increases at a well, but is not used to determine a statistically significant change requiring notification under OAC 3745-30-08(D)(8). The Shewhart control chart is designed to indicate a "short-term" or immediate spike in the concentration of an indicator parameter in a compliance well and is used to determine whether a statistically significant change has occurred requiring notification to Ohio EPA under OAC 3745-30-08(D)(8). Ohio EPA is notified when the Shewhart control limit for any of the indicator parameters is exceeded at any of the downgradient Gallia wells in two consecutive semiannual sampling events.

The SCL and h limits used for the control charts are based on the goal of attaining a site-wide 5% false positive rate while maintaining at least a 20% false negative rate (or 80% statistical power). Gibbons (1999) provides tables used to establish appropriate thresholds. In addition, verification resampling is incorporated into the control chart scheme if necessary to achieve the 5%/20% goal. An additional parameter (k) is used in calculating the CUSUM for future compliance well data, which are then compared to the h threshold. Selection of the k value (commonly selected to be approximately one-half the size of an important displacement, D) in conjunction with the h threshold is such that together they allow a displacement of two standard deviations (above baseline) to be detected quickly (i.e., between sampling rounds).

1.2 UPPER PREDICTION LIMITS

Nonparametric or Poisson prediction limits are calculated in cases where the percentage of nondetects exceeds 50% (for ammonia and nitrate/nitrite in some of the wells). In these cases, the pooled historical compliance well data (and possibly background well data) is used to calculate the prediction limits. Pooling of the historical compliance well data is necessary to obtain sufficient numbers of baseline/background data to attain a site-wide false positive rate of approximately 5% ($\alpha^* \sim 0.05$) using

an individual test false positive rate of approximately 1% ($\alpha \sim 0.01$). These performance standards are consistent with OAC 3745-29-10(C)(7)(a-f) (effective June 1, 1994) and Federal regulations promulgated by U.S. EPA and codified in Title 40 of the Code of Federal Regulations Part 264, Subpart F, which are designed to provide an adequate balance between the site-wide and individual test false positive rates.

1.3 SHEWART-CUSUM CONTROL CHART STATISTICS

The following tables provide the Shewart-CUSUM control chart statistics for X-749A compliance wells for 2025.

Shewhart-CUSUM control chart statistics for well X749A-03G – 2025

Indicator parameter	Shewhart Control Limit (SCL)	(Shewhart)[a] Sample results		Decision Internal Limit (h)	(CUSUM)[b] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	50.7	19.25	28	54.1	24.1	24.1
Ammonia (mg/L)	0.11	< 0.017	< 0.017			
Calcium (µg/L)	21,700	10,400	12,100	23,100	9920	9920
Chloride (mg/L)	35.7	16.9	14.6	38.5	13.2	13.2
Iron (µg/L)	34,100	2050	184	37,800	4590	4590
Nitrate/nitrite (as nitrogen) (mg/L)	5.74	0.8525	0.337	6.36	0.742	0.742
Potassium (µg/L)	3070	608	619	3330	1030	1030
Sodium (µg/L)	20,000	13,400	13,200	21,100	11,800	11,900
Sulfate (mg/L)	60.8	32.25	30.8	65.0	27.2	27.2

[a]These results must not exceed the Shewhart Control Limit (SCL). The upper prediction limit is listed and used to evaluate results for ammonia because in more than 50% of the samples that make up the baseline data set for this well, ammonia was not detected.
[b]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X749A-17G – 2025

Indicator parameter	Shewhart Control Limit (SCL)	(Shewhart)[a] Sample results		Decision Internal Limit (h)	(CUSUM)[b] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	248	63	45	271	64.0	64.0
Ammonia (mg/L)	0.13	< 0.017	< 0.017			
Calcium (µg/L)	50,000	33,300	32,900	52,300	31,500	31,500
Chloride (mg/L)	148	119	126	154	110	126
Iron (µg/L)	14,800	2890	6060	16,300	2740	3800
Nitrate/nitrite (as nitrogen) (mg/L)	0.385	0.111	< 0.17	0.418	0.124	0.124
Potassium (µg/L)	43,500	2030	2260	48,200	5470	5470
Sodium (µg/L)	93,000	61,000	65,500	96,300	67,000	67,000
Sulfate (mg/L)	226	87.2	77.6	240	110	110

[a]These results must not exceed the Shewhart Control Limit (SCL). The upper prediction limit is listed and used to evaluate results for ammonia because in more than 50% of the samples that make up the baseline data set for this well, ammonia was not detected.
[b]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X749A-18G – 2025

Indicator parameter	Shewhart Control Limit (SCL)	(Shewhart)[a] Sample results		Decision Internal Limit (h)	(CUSUM)[b] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	119	61	64	124	73.2	73.2
Ammonia (mg/L)	1.77	< 0.017	< 0.017			
Calcium (µg/L)	62,600	16,500	18,300	66,700	30,100	30,100
Chloride (mg/L)	125	34.2	30	134	57.4	57.4
Iron (µg/L)	9220	366	63.4	10,200	1010	1010
Nitrate/nitrite (as nitrogen) (mg/L)	0.245	< 0.085	< 0.17	0.266	0.0755	0.138
Potassium (µg/L)	3380	1650	1740	3540	2130	2130
Sodium (µg/L)	93,400	39,500	39,300	98,100	55,500	55,500
Sulfate (mg/L)	214	76.4	68.9	226	122	122

[a]These results must not exceed the Shewhart Control Limit (SCL). The upper prediction limit is listed and used to evaluate results for ammonia because in more than 50% of the samples that make up the baseline data set for this well, ammonia was not detected.
[b]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X749A-19G – 2025

Indicator parameter	Shewhart Control Limit (SCL)	(Shewhart)[a] Sample results		Decision Internal Limit (h)	(CUSUM)[b] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	79.0	68	61.5	81.3	64.6	61.8
Ammonia (mg/L)	0.14	< 0.017	< 0.017			
Calcium (µg/L)	110,000	24,700	29,000	119,000	44,300	44,300
Chloride (mg/L)	156	47.4	52.3	166	80.7	80.7
Iron (µg/L)	5550	< 30	664	6140	811	811
Nitrate/nitrite (as nitrogen) (mg/L)	0.231	< 0.085	< 0.17	0.253	0.056	0.137
Potassium (µg/L)	4880	1960	2220	5150	2710	2710
Sodium (µg/L)	88,300	51,700	51,800	92,000	58,700	58,700
Sulfate (mg/L)	625	131	149	677	210	210

[a]These results must not exceed the Shewhart Control Limit (SCL). The upper prediction limit is listed and used to evaluate results for ammonia because in more than 50% of the samples that make up the baseline data set for this well, ammonia was not detected.
[b]These results should not exceed the Decision Internal Limit (h).

2. STATISTICAL EVALUATION OF X-735 COMPLIANCE WELLS – 2025

This statistical evaluation includes Gallia compliance wells that are part of corrective measures monitoring (X735-02GA, X735-03G, X735-03GA, X735-04G, X735-04GA, X735-05G, X735-05GA, X735-06GAA, X735-12G, and X735-21G) and Berea compliance wells that are part of detection monitoring (X735-17B and X735-18B).

The detection monitoring program for Berea wells at the X-735 Landfills was changed beginning in July 2012 to be consistent with current Ohio EPA regulations (OAC 3745-30-08 effective February 1, 2008). Ammonia, calcium, iron, nitrate/nitrite, and potassium were added to the statistical evaluation program, and total dissolved solids was deleted from the program. Therefore, the current statistical evaluation parameters for Berea wells are alkalinity, ammonia, calcium, chloride, iron, nitrate/nitrite (as nitrogen), potassium, sodium, and sulfate.

Gallia compliance wells are evaluated in accordance with the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a), which includes requirements for statistical evaluations in accordance with previous Ohio EPA regulations (OAC 3745-29-10 effective June 1, 1994). Because the Gallia compliance wells are monitored in accordance with the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a) and OAC 3745-29-10 (effective June 1, 1994), total dissolved solids was not removed from the statistical evaluation program, and ammonia, calcium, iron, nitrate/nitrite, and potassium were not added to the program. The current statistical monitoring parameters for Gallia wells are alkalinity, chloride, total dissolved solids, sodium, and sulfate. Cobalt, mercury, and nickel are also included in compliance with the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a).

2.1 INTRA-WELL CONTROL CHARTS

Intra-well Shewhart-CUSUM (cumulative summation) control charts were constructed using historical baseline data from 1998 through 2001 for Gallia compliance wells X735-02GA, X735-03GA, X735-04GA, X735-05GA, X735-06GAA, and X735-21G and Berea compliance wells X735-17B and X735-18B. The baseline data for these compliance wells have been periodically updated and were most recently updated in 2025 to include data collected through 2024.

Four additional Gallia compliance wells (X735-03G, X735-04G, X735-05G, and X735-12G) were added to the statistical evaluation program after approval of the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a). These wells are sampled every three years. Insufficient data were available to establish control charts; therefore, the wells were initially evaluated by comparison to background values. Intra-well Shewhart-CUSUM control charts were constructed in 2017 using available data from previous sampling events from 2005 through 2014. These wells were last sampled in 2023.

Control charts are constructed showing two control limits calculated using the baseline compliance well data. The CUSUM control chart is designed to indicate a "long-term" trend or accumulation above baseline and is used as an internal indicator for the early detection of gradual concentration increases at a well, but is not used to determine a statistically significant change requiring notification under OAC 3745-30-08(D)(8) (for Berea wells in the detection monitoring program). The Shewhart control chart is designed to indicate a "short-term" or immediate spike in the concentration of an indicator parameter in a compliance well and is used to determine whether a statistically significant change has occurred requiring notification to Ohio EPA under OAC 3745-30-08(D)(8) (for Berea wells in the detection monitoring program). Ohio EPA is notified when the Shewhart control limit for any of the indicator parameters is exceeded at any of the downgradient Berea wells in two consecutive semiannual sampling events.

Control charts are used to evaluate the X-735 Gallia compliance wells, but notifications to Ohio EPA are not required under the *Corrective Measures Plan for the X-735 Landfill* (DOE 2007a).

The SCL and h limits used for the control charts are based on the goal of attaining a site-wide 5% false positive rate while maintaining at least a 20% false negative rate (or 80% statistical power). Gibbons (1999) provides tables used to establish appropriate thresholds. In addition, verification resampling is incorporated into the control chart scheme if necessary to achieve the 5%/20% goal. An additional parameter (k) is used in calculating the CUSUM for future compliance well data, which are then compared to the h threshold. Selection of the k value (commonly selected to be approximately one-half the size of an important displacement, D) in conjunction with the h threshold is such that together they allow a displacement of two standard deviations (above baseline) to be detected quickly (i.e., between sampling rounds).

2.2 UPPER PREDICTION LIMITS

Nonparametric or Poisson prediction limits are calculated in cases where the percentage of nondetects exceeds 50% (for mercury in some of the X-735 Gallia wells). In these cases, the pooled historical compliance well data (and possibly background well data) is used to calculate the prediction limits. Pooling of the historical compliance well data is necessary to obtain sufficient numbers of baseline/background data to attain a site-wide false positive rate of approximately 5% ($\alpha^* \sim 0.05$) using an individual test false positive rate of approximately 1% ($\alpha \sim 0.01$). These performance standards are consistent with OAC 3745-29-10(C)(7)(a-f) (effective June 1, 1994) and Federal regulations promulgated by U.S. EPA and codified in Title 40 of the Code of Federal Regulations Part 264, Subpart F, which are designed to provide an adequate balance between the site-wide and individual test false positive rates.

2.3 SHEWART-CUSUM CONTROL CHART STATISTICS

The following tables provide the Shewart-CUSUM control chart statistics for X-735 wells for 2025.

Shewhart-CUSUM control chart statistics for well X735-02GA – 2025

Indicator parameter	Shewhart Control Limit (SCL)[a]	(Shewhart)[b] Sample results		Decision Internal Limit (h)	(CUSUM)[c] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	102	56.5	64.75	108	48.0	54.7
Chloride (mg/L)	43.6	25.9	25.35	46.2	22.8	22.8
Dissolved solids, Total (mg/L)	309	193	199	325	176	176
Sodium (mg/L)	44.7	33.3	31.55	47.1	29.6	32.4
Sulfate (mg/L)	76.4	53.1	53.4	79.8	49.0	49.0
Cobalt (µg/L)	0.407	< 0.3	< 0.3	0.445	0.243	0.383
Mercury (µg/L)	0.08	< 0.067	< 0.067			
Nickel (µg/L)	13.2	1.74	2.085	14.5	2.89	2.89

[a]Or upper prediction limit for mercury. The upper prediction limit is used to evaluate data for mercury because in more than 50% of the samples that make up the baseline data set for this well, mercury was not detected.
[b]These results should not exceed the Shewhart Control Limit (SCL) or upper prediction limit (mercury only).
[c]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X735-03GA – 2025

Indicator parameter	Shewhart Control Limit (SCL)[a]	(Shewhart)[b] Sample results		Decision Internal Limit (h)	(CUSUM)[c] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	45.3	32.5	35.5	46.9	32.2	33.0
Chloride (mg/L)	42.2	28.9	30.8	44.7	25.1	30.3
Dissolved solids, Total (mg/L)	277	213	216	286	201	202
Sodium (mg/L)	36.4	28.6	26.9	37.6	27.3	27.3
Sulfate (mg/L)	125	82.3	76.9	131	75.9	75.9
Cobalt (µg/L)	0.401	< 0.3	< 0.3	0.438	0.245	0.382
Mercury (µg/L)	0.099	< 0.067	< 0.067			
Nickel (µg/L)	13.7	1.94	2.39	15.0	3.46	3.46

[a]Or upper prediction limit for mercury. The upper prediction limit is used to evaluate data for mercury because in more than 50% of the samples that make up the baseline data set for this well, mercury was not detected.
[b]These results should not exceed the Shewhart Control Limit (SCL) or upper prediction limit (mercury only).
[c]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X735-04GA – 2025

Indicator parameter	Shewhart Control Limit (SCL)[a]	(Shewhart)[b] Sample results		Decision Internal Limit (h)	(CUSUM)[c] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	23.8	6.5	9	25.5	10.0	10.0
Chloride (mg/L)	26.1	3.04	3.16	28.1	9.70	9.70
Dissolved solids, Total (mg/L)	207	97	109	221	94.8	94.8
Sodium (mg/L)	34.3	21.4	20.8	36.1	20.0	20.0
Sulfate (mg/L)	57.4	37.1	34.3	62.5	29.5	39.3
Cobalt (µg/L)	2.74	1.12	1.32	2.99	0.807	0.957
Mercury (µg/L)	0.22	< 0.067	< 0.067			
Nickel (µg/L)	25.4	7.84	8.65	27.7	7.09	7.09

[a]Or upper prediction limit for mercury. The upper prediction limit is used to evaluate data for mercury because in more than 50% of the samples that make up the baseline data set for this well, mercury was not detected.
[b]These results should not exceed the Shewhart Control Limit (SCL) or upper prediction limit (mercury only).
[c]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X735-05GA – 2025

Indicator parameter	Shewhart Control Limit (SCL)[a]	(Shewhart)[b] Sample results		Decision Internal Limit (h)	(CUSUM)[c] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	121	79	66	128	67.6	62.1
Chloride (mg/L)	101	48	71.4	111	33.2	67.7
Dissolved solids, Total (mg/L)	460	254	363	487	244	323
Sodium (mg/L)	64.9	18.6	25.9	70.8	18.2	18.2
Sulfate (mg/L)	243	66.8	83.9	261	105	105
Cobalt (µg/L)	28.2	3.35	11.4	31.3	2.94	6.67
Mercury (µg/L)	0.075	< 0.067	< 0.067			
Nickel (µg/L)	41.4	3.8	16.9	45.8	6.03	10.3

[a]Or upper prediction limit for mercury. The upper prediction limit is used to evaluate data for mercury because in more than 50% of the samples that make up the baseline data set for this well, mercury was not detected.
[b]These results should not exceed the Shewhart Control Limit (SCL) or upper prediction limit (mercury only).
[c]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X735-06GAA – 2025

Indicator parameter	Shewhart Control Limit (SCL)[a]	(Shewhart)[b] Sample results		Decision Internal Limit (h)	(CUSUM)[c] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	9.24	3	< 0.725	10.0	2.99	2.99
Chloride (mg/L)	65.3	25.6	30.8	70.2	25.9	25.9
Dissolved solids, Total (mg/L)	391	221	224	410	237	237
Sodium (mg/L)	50.8	24.4	27.2	53.2	31.5	31.5
Sulfate (mg/L)	184	82.6	100	193	105	105
Cobalt (µg/L)	30.0	14.8	20.3	31.6	17.9	18.0
Mercury (µg/L)	0.067	< 0.067	< 0.067			
Nickel (µg/L)	95.5	50.4	69.1	99.8	61.2	62.7

[a]Or upper prediction limit for mercury. The upper prediction limit is used to evaluate data for mercury because in more than 50% of the samples that make up the baseline data set for this well, mercury was not detected.
[b]These results should not exceed the Shewhart Control Limit (SCL) or upper prediction limit (mercury only).
[c]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X735-17B – 2025

Indicator parameter	Shewhart Control Limit (SCL)	(Shewhart)[a] Sample results		Decision Internal Limit (h)	(CUSUM)[b] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	307	224	189	321	203	198
Ammonia (mg/L)	0.644	0.04	< 0.017	0.714	0.0880	0.0880
Calcium (µg/L)	53,200	34,900	12,000	57,000	29,200	22,900
Chloride (mg/L)	21.7	17.1	14.7	22.3	16.4	16.4
Iron (µg/L)	1290	488	351	1410	299	280
Nitrate/nitrite (as nitrogen) (mg/L)	0.318	0.0451	< 0.085	0.348	0.0758	0.0758
Potassium (µg/L)	7570	5010	6010	7900	4950	5520
Sodium (mg/L)	63.1	42.9	45.4	65.0	47.8	47.8
Sulfate (mg/L)	17.5	10.4	8.38	18.5	9.33	9.33

[a]These results must not exceed the Shewhart Control Limit (SCL).
[b]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X735-18B – 2025

Indicator parameter	Shewhart Control Limit (SCL)	(Shewhart)[a] Sample results		Decision Internal Limit (h)	(CUSUM)[b] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	227	150	151	236	156	156
Ammonia (mg/L)	0.215	0.058	0.03	0.234	0.0668	0.0668
Calcium (µg/L)	52,600	31,200	33,800	55,300	31,300	31,300
Chloride (mg/L)	17.4	12.4	13.4	18.3	11.1	12.8
Iron (µg/L)	2380	1200	1210	2580	903	1020
Nitrate/nitrite (as nitrogen) (mg/L)	0.350	0.114	< 0.17	0.379	0.119	0.127
Potassium (µg/L)	3880	1980	1960	4100	2080	2080
Sodium (mg/L)	41.7	22.7	24.3	43.9	24.7	24.7
Sulfate (mg/L)	43.1	24	27.8	46.1	19.5	23.7

[a]These results must not exceed the Shewhart Control Limit (SCL).
[b]These results should not exceed the Decision Internal Limit (h).

Shewhart-CUSUM control chart statistics for well X735-21G – 2025

Indicator parameter	Shewhart Control Limit (SCL)	(Shewhart)[a] Sample results		Decision Internal Limit (h)	(CUSUM)[b] Sample results	
		2nd Qtr.	4th Qtr.		2nd Qtr.	4th Qtr.
Alkalinity, Total (mg/L)	453	290	76	494	228	123
Chloride (mg/L)	20.5	1.54	2.88	22.3	6.31	6.31
Dissolved solids, Total (mg/L)	533	343	177	571	287	234
Sodium (mg/L)	29.9	5.24	19.2	32.4	10.0	15.5
Sulfate (mg/L)	133	43.6	51.6	142	60.7	60.7
Cobalt (µg/L)	28.3	16.2	8.41	30.3	13.2	12.2
Mercury (µg/L)	2.52	< 0.067	< 0.067	2.79	0.420	0.420
Nickel (µg/L)	55.1	22.1	19.4	58.6	27.0	27.0

[a]These results should not exceed the Shewhart Control Limit (SCL).
[b]These results should not exceed the Decision Internal Limit (h).

APPENDIX G

NPDES SAMPLING RESULTS

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DATA TABLES FOR VOCS AND RADIONUCLIDES AT GROUNDWATER TREATMENT FACILITIES

Laboratory Data Qualifiers

J	Estimated
U	Undetected

When collected, analytical results for duplicate samples (designated FD in the sample type column) are provided with the results for the regular sample (REG).

Data Validation Qualifiers

=	The detected result is accurate.
J	The reported result is estimated.
U	The reported result is not detected.

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TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
15	Americium-241	pCi/L	REG	3/3/2025	0.0109 U	U
15	Americium-241	pCi/L	FD	3/3/2025	0.0185 U	U
15	Americium-241	pCi/L	REG	6/9/2025	0.00805 U	U
15	Americium-241	pCi/L	FD	6/9/2025	0 U	U
15	Americium-241	pCi/L	REG	8/13/2025	0.0153 U	U
15	Americium-241	pCi/L	FD	8/13/2025	-0.00714 U	U
15	Americium-241	pCi/L	REG	12/1/2025	-0.0046 U	U
15	Americium-241	pCi/L	FD	12/1/2025	0.0287 U	U
15	Neptunium-237	pCi/L	REG	3/3/2025	-0.0107 U	U
15	Neptunium-237	pCi/L	FD	3/3/2025	0.0124 U	U
15	Neptunium-237	pCi/L	REG	6/9/2025	-0.0231 U	U
15	Neptunium-237	pCi/L	FD	6/9/2025	0.0677 U	U
15	Neptunium-237	pCi/L	REG	8/13/2025	-0.0056 U	U
15	Neptunium-237	pCi/L	FD	8/13/2025	-0.00579 U	U
15	Neptunium-237	pCi/L	REG	12/1/2025	-0.00699 U	U
15	Neptunium-237	pCi/L	FD	12/1/2025	0.0178 U	U
15	Plutonium-238	pCi/L	REG	3/3/2025	0.0328 U	U
15	Plutonium-238	pCi/L	FD	3/3/2025	0.00945 U	U
15	Plutonium-238	pCi/L	REG	6/9/2025	0.018 U	U
15	Plutonium-238	pCi/L	FD	6/9/2025	0.0183 U	U
15	Plutonium-238	pCi/L	REG	8/13/2025	-0.00363 U	U
15	Plutonium-238	pCi/L	FD	8/13/2025	-0.011 U	U
15	Plutonium-238	pCi/L	REG	12/1/2025	0.0157 U	U
15	Plutonium-238	pCi/L	FD	12/1/2025	-0.0132 U	U
15	Plutonium-239/240	pCi/L	REG	3/3/2025	0.0141 U	U
15	Plutonium-239/240	pCi/L	FD	3/3/2025	-0.000822 U	U
15	Plutonium-239/240	pCi/L	REG	6/9/2025	0.0108 U	U
15	Plutonium-239/240	pCi/L	FD	6/9/2025	0.0219 U	U
15	Plutonium-239/240	pCi/L	REG	8/13/2025	0.00726 U	U
15	Plutonium-239/240	pCi/L	FD	8/13/2025	-0.00367 U	U
15	Plutonium-239/240	pCi/L	REG	12/1/2025	0.0062 U	U
15	Plutonium-239/240	pCi/L	FD	12/1/2025	0.0149 U	U
15	Technetium-99	pCi/L	REG	1/2/2025	4.91 JU	UJ
15	Technetium-99	pCi/L	REG	2/3/2025	-0.607 U	U
15	Technetium-99	pCi/L	REG	3/3/2025	0.898 U	U
15	Technetium-99	pCi/L	FD	3/3/2025	0.378 U	U
15	Technetium-99	pCi/L	REG	4/3/2025	1.01 U	U
15	Technetium-99	pCi/L	REG	5/14/2025	0.675 U	U
15	Technetium-99	pCi/L	REG	6/9/2025	3.05 U	U

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
15	Technetium-99	pCi/L	FD	6/9/2025	3.53 U	U
15	Technetium-99	pCi/L	REG	7/10/2025	2.37 U	U
15	Technetium-99	pCi/L	REG	8/13/2025	11.1	=
15	Technetium-99	pCi/L	FD	8/13/2025	9.64	=
15	Technetium-99	pCi/L	REG	9/2/2025	7.6	=
15	Technetium-99	pCi/L	REG	10/6/2025	14.3	=
15	Technetium-99	pCi/L	FD	10/6/2025	16.2	=
15	Technetium-99	pCi/L	REG	11/3/2025	6.74	=
15	Technetium-99	pCi/L	REG	12/1/2025	4.03 JU	UJ
15	Technetium-99	pCi/L	FD	12/1/2025	4.33	=
15	Trichloroethene	µg/L	REG	1/2/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	1/20/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	2/3/2025	0.25 U	
15	Trichloroethene	µg/L	REG	2/17/2025	0.25 U	U
15	Trichloroethene	µg/L	REG	3/3/2025	0.66 J	
15	Trichloroethene	µg/L	FD	3/3/2025	1.66	
15	Trichloroethene	µg/L	REG	3/17/2025	0.333 U	
15	Trichloroethene	µg/L	REG	4/3/2025	0.96 J	J
15	Trichloroethene	µg/L	REG	4/23/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	5/14/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	5/19/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	6/9/2025	0.333 U	
15	Trichloroethene	µg/L	FD	6/9/2025	0.333 U	
15	Trichloroethene	µg/L	REG	6/16/2025	0.333 U	
15	Trichloroethene	µg/L	REG	7/10/2025	0.25 U	
15	Trichloroethene	µg/L	REG	7/17/2025	0.333 U	
15	Trichloroethene	µg/L	REG	8/13/2025	0.333 U	U
15	Trichloroethene	µg/L	FD	8/13/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	8/18/2025	0.333 U	
15	Trichloroethene	µg/L	REG	9/2/2025	0.333 U	
15	Trichloroethene	µg/L	REG	9/22/2025	0.25 U	
15	Trichloroethene	µg/L	REG	10/6/2025	0.333 U	U
15	Trichloroethene	µg/L	FD	10/6/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	10/21/2025	0.55 J	
15	Trichloroethene	µg/L	REG	11/3/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	11/17/2025	1.26	=
15	Trichloroethene	µg/L	REG	12/1/2025	0.45 J	J
15	Trichloroethene	µg/L	FD	12/1/2025	0.333 U	U
15	Trichloroethene	µg/L	REG	12/15/2025	0.333 U	U

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
15	Uranium	µg/L	REG	1/2/2025	1.61	J
15	Uranium	µg/L	REG	2/3/2025	1.06	=
15	Uranium	µg/L	REG	3/3/2025	1.59	=
15	Uranium	µg/L	FD	3/3/2025	1.62	=
15	Uranium	µg/L	REG	4/3/2025	0.934	=
15	Uranium	µg/L	REG	5/14/2025	0.921	J
15	Uranium	µg/L	REG	6/9/2025	1.13	J
15	Uranium	µg/L	FD	6/9/2025	1.17	=
15	Uranium	µg/L	REG	7/10/2025	0.409	=
15	Uranium	µg/L	REG	8/13/2025	0.227 JU	UJ
15	Uranium	µg/L	FD	8/13/2025	0.123 U	U
15	Uranium	µg/L	REG	9/2/2025	0.252	UJ
15	Uranium	µg/L	REG	10/6/2025	1.47	J
15	Uranium	µg/L	FD	10/6/2025	1.7	J
15	Uranium	µg/L	REG	11/3/2025	2.02	J
15	Uranium	µg/L	REG	12/1/2025	2.59	J
15	Uranium	µg/L	FD	12/1/2025	2.44	J
15	Uranium-233/234	pCi/L	REG	1/2/2025	1.04	J
15	Uranium-233/234	pCi/L	REG	2/3/2025	0.604	=
15	Uranium-233/234	pCi/L	REG	3/3/2025	0.824	=
15	Uranium-233/234	pCi/L	FD	3/3/2025	0.806	=
15	Uranium-233/234	pCi/L	REG	4/3/2025	0.531	=
15	Uranium-233/234	pCi/L	REG	5/14/2025	0.461	J
15	Uranium-233/234	pCi/L	REG	6/9/2025	0.949	J
15	Uranium-233/234	pCi/L	FD	6/9/2025	0.92	=
15	Uranium-233/234	pCi/L	REG	7/10/2025	0.213	=
15	Uranium-233/234	pCi/L	REG	8/13/2025	0.104 JU	UJ
15	Uranium-233/234	pCi/L	FD	8/13/2025	0.126	=
15	Uranium-233/234	pCi/L	REG	9/2/2025	0.159	=
15	Uranium-233/234	pCi/L	REG	10/6/2025	1.13	=
15	Uranium-233/234	pCi/L	FD	10/6/2025	1.2	=
15	Uranium-233/234	pCi/L	REG	11/3/2025	1.34	=
15	Uranium-233/234	pCi/L	REG	12/1/2025	1.53	=
15	Uranium-233/234	pCi/L	FD	12/1/2025	1.78	=
15	Uranium-235/236	pCi/L	REG	1/2/2025	0.0571 JU	UJ
15	Uranium-235/236	pCi/L	REG	2/3/2025	0.0307 U	U
15	Uranium-235/236	pCi/L	REG	3/3/2025	0.0396 U	U
15	Uranium-235/236	pCi/L	FD	3/3/2025	0.0911	=
15	Uranium-235/236	pCi/L	REG	4/3/2025	0.0332 U	U

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
15	Uranium-235/236	pCi/L	REG	5/14/2025	0.0131 U	U
15	Uranium-235/236	pCi/L	REG	6/9/2025	0.0577	UJ
15	Uranium-235/236	pCi/L	FD	6/9/2025	0.0334 U	U
15	Uranium-235/236	pCi/L	REG	7/10/2025	0.0328 JU	UJ
15	Uranium-235/236	pCi/L	REG	8/13/2025	0.0115 U	U
15	Uranium-235/236	pCi/L	FD	8/13/2025	0.0161 U	U
15	Uranium-235/236	pCi/L	REG	9/2/2025	0.0138 U	U
15	Uranium-235/236	pCi/L	REG	10/6/2025	0.0777	UJ
15	Uranium-235/236	pCi/L	FD	10/6/2025	0.101	UJ
15	Uranium-235/236	pCi/L	REG	11/3/2025	0.128	UJ
15	Uranium-235/236	pCi/L	REG	12/1/2025	0.0628 JU	UJ
15	Uranium-235/236	pCi/L	FD	12/1/2025	0.0986 JU	UJ
15	Uranium-238	pCi/L	REG	1/2/2025	0.531	=
15	Uranium-238	pCi/L	REG	2/3/2025	0.351	=
15	Uranium-238	pCi/L	REG	3/3/2025	0.528	=
15	Uranium-238	pCi/L	FD	3/3/2025	0.532	=
15	Uranium-238	pCi/L	REG	4/3/2025	0.309	=
15	Uranium-238	pCi/L	REG	5/14/2025	0.308	=
15	Uranium-238	pCi/L	REG	6/9/2025	0.37	=
15	Uranium-238	pCi/L	FD	6/9/2025	0.387	=
15	Uranium-238	pCi/L	REG	7/10/2025	0.133	=
15	Uranium-238	pCi/L	REG	8/13/2025	0.0745 JU	UJ
15	Uranium-238	pCi/L	FD	8/13/2025	0.039 U	U
15	Uranium-238	pCi/L	REG	9/2/2025	0.0826	UJ
15	Uranium-238	pCi/L	REG	10/6/2025	0.482	=
15	Uranium-238	pCi/L	FD	10/6/2025	0.557	=
15	Uranium-238	pCi/L	REG	11/3/2025	0.659	=
15	Uranium-238	pCi/L	REG	12/1/2025	0.86	=
15	Uranium-238	pCi/L	FD	12/1/2025	0.806	=
608	Americium-241	pCi/L	REG	3/3/2025	0.00826 U	U
608	Americium-241	pCi/L	REG	6/9/2025	0.00882 U	U
608	Americium-241	pCi/L	REG	8/20/2025	0.0137 U	U
608	Americium-241	pCi/L	REG	12/1/2025	0.000666 U	U
608	Neptunium-237	pCi/L	REG	3/3/2025	0.0317 U	U
608	Neptunium-237	pCi/L	REG	6/9/2025	0.0184 U	U
608	Neptunium-237	pCi/L	REG	8/20/2025	0.0137 U	U
608	Neptunium-237	pCi/L	REG	12/1/2025	0.0037 U	U
608	Plutonium-238	pCi/L	REG	3/3/2025	0.0127 U	U
608	Plutonium-238	pCi/L	REG	6/9/2025	0.0227 U	U

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
608	Plutonium-238	pCi/L	REG	8/20/2025	0.011 U	U
608	Plutonium-238	pCi/L	REG	12/1/2025	0.00999 U	U
608	Plutonium-239/240	pCi/L	REG	3/3/2025	0.0212 U	U
608	Plutonium-239/240	pCi/L	REG	6/9/2025	0.00325 U	U
608	Plutonium-239/240	pCi/L	REG	8/20/2025	0.011 U	U
608	Plutonium-239/240	pCi/L	REG	12/1/2025	0.02 U	U
608	Technetium-99	pCi/L	REG	1/2/2025	166	=
608	Technetium-99	pCi/L	FD	1/2/2025	173	=
608	Technetium-99	pCi/L	REG	2/3/2025	261	=
608	Technetium-99	pCi/L	REG	3/3/2025	238	=
608	Technetium-99	pCi/L	FD	4/3/2025	214	=
608	Technetium-99	pCi/L	REG	4/3/2025	220	=
608	Technetium-99	pCi/L	REG	5/14/2025	2.78 U	U
608	Technetium-99	pCi/L	REG	6/9/2025	6.97 JU	UJ
608	Technetium-99	pCi/L	REG	7/10/2025	56.7	=
608	Technetium-99	pCi/L	REG	8/20/2025	134	J
608	Technetium-99	pCi/L	REG	9/2/2025	104	=
608	Technetium-99	pCi/L	REG	10/6/2025	135	=
608	Technetium-99	pCi/L	REG	11/3/2025	153	=
608	Technetium-99	pCi/L	REG	12/1/2025	169	=
608	Trichloroethene	µg/L	REG	1/2/2025	0.56 J	J
608	Trichloroethene	µg/L	FD	1/2/2025	0.59 J	J
608	Trichloroethene	µg/L	REG	1/20/2025	0.5 J	J
608	Trichloroethene	µg/L	REG	2/3/2025	2.09	
608	Trichloroethene	µg/L	REG	2/17/2025	1.53	=
608	Trichloroethene	µg/L	REG	3/3/2025	1.72	
608	Trichloroethene	µg/L	REG	3/17/2025	1.86	
608	Trichloroethene	µg/L	REG	4/3/2025	1.74	=
608	Trichloroethene	µg/L	FD	4/3/2025	1.78	=
608	Trichloroethene	µg/L	REG	4/23/2025	5.68	=
608	Trichloroethene	µg/L	REG	5/14/2025	0.333 U	U
608	Trichloroethene	µg/L	REG	5/19/2025	0.333 U	U
608	Trichloroethene	µg/L	REG	6/9/2025	0.333 U	
608	Trichloroethene	µg/L	REG	6/16/2025	0.333 U	
608	Trichloroethene	µg/L	REG	7/10/2025	0.25 U	
608	Trichloroethene	µg/L	REG	7/17/2025	0.333 U	
608	Trichloroethene	µg/L	REG	8/20/2025	0.333 U	
608	Trichloroethene	µg/L	REG	9/2/2025	0.333 U	
608	Trichloroethene	µg/L	REG	9/22/2025	0.333 U	

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
608	Trichloroethene	µg/L	REG	10/6/2025	0.333 U	U
608	Trichloroethene	µg/L	REG	10/28/2025	0.333 U	U
608	Trichloroethene	µg/L	REG	11/3/2025	0.333 U	UJ
608	Trichloroethene	µg/L	REG	11/17/2025	0.333 U	U
608	Trichloroethene	µg/L	REG	12/1/2025	0.333 U	U
608	Trichloroethene	µg/L	REG	12/15/2025	0.333 U	U
608	Uranium	µg/L	REG	1/2/2025	1.31	=
608	Uranium	µg/L	FD	1/2/2025	1.21	J
608	Uranium	µg/L	REG	2/3/2025	1.55	J
608	Uranium	µg/L	REG	3/3/2025	1.43	J
608	Uranium	µg/L	REG	4/3/2025	1.29	J
608	Uranium	µg/L	FD	4/3/2025	1.16	J
608	Uranium	µg/L	REG	5/14/2025	3.02	J
608	Uranium	µg/L	REG	6/9/2025	0.673	J
608	Uranium	µg/L	REG	7/10/2025	0.79	=
608	Uranium	µg/L	REG	8/20/2025	2.12	=
608	Uranium	µg/L	REG	9/2/2025	0.908	J
608	Uranium	µg/L	REG	10/6/2025	1.2	=
608	Uranium	µg/L	REG	11/3/2025	1.38	=
608	Uranium	µg/L	REG	12/1/2025	1.6	=
608	Uranium-233/234	pCi/L	REG	1/2/2025	0.503	=
608	Uranium-233/234	pCi/L	FD	1/2/2025	0.581	=
608	Uranium-233/234	pCi/L	REG	2/3/2025	0.714	=
608	Uranium-233/234	pCi/L	REG	3/3/2025	0.55	=
608	Uranium-233/234	pCi/L	REG	4/3/2025	0.521	=
608	Uranium-233/234	pCi/L	FD	4/3/2025	0.524	=
608	Uranium-233/234	pCi/L	REG	5/14/2025	1.53	=
608	Uranium-233/234	pCi/L	REG	6/9/2025	0.335	=
608	Uranium-233/234	pCi/L	REG	7/10/2025	0.408	=
608	Uranium-233/234	pCi/L	REG	8/20/2025	1.09	=
608	Uranium-233/234	pCi/L	REG	9/2/2025	0.57	=
608	Uranium-233/234	pCi/L	REG	10/6/2025	0.53	=
608	Uranium-233/234	pCi/L	REG	11/3/2025	0.638	=
608	Uranium-233/234	pCi/L	REG	12/1/2025	0.8	=
608	Uranium-235/236	pCi/L	REG	1/2/2025	0.0288 U	U
608	Uranium-235/236	pCi/L	FD	1/2/2025	0.0572 JU	UJ
608	Uranium-235/236	pCi/L	REG	2/3/2025	0.0355 JU	UJ
608	Uranium-235/236	pCi/L	REG	3/3/2025	0.0418 JU	UJ

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
608	Uranium-235/236	pCi/L	REG	4/3/2025	0.0523 JU	UJ
608	Uranium-235/236	pCi/L	FD	4/3/2025	0.0439 JU	UJ
608	Uranium-235/236	pCi/L	REG	5/14/2025	0.105	UJ
608	Uranium-235/236	pCi/L	REG	6/9/2025	0.0354 JU	UJ
608	Uranium-235/236	pCi/L	REG	7/10/2025	0.0251 U	U
608	Uranium-235/236	pCi/L	REG	8/20/2025	0.0857	=
608	Uranium-235/236	pCi/L	REG	9/2/2025	0.038 JU	UJ
608	Uranium-235/236	pCi/L	REG	10/6/2025	0.0408 U	U
608	Uranium-235/236	pCi/L	REG	11/3/2025	0.058 U	U
608	Uranium-235/236	pCi/L	REG	12/1/2025	0.055 U	U
608	Uranium-238	pCi/L	REG	1/2/2025	0.435	=
608	Uranium-238	pCi/L	FD	1/2/2025	0.397	=
608	Uranium-238	pCi/L	REG	2/3/2025	0.517	=
608	Uranium-238	pCi/L	REG	3/3/2025	0.474	=
608	Uranium-238	pCi/L	REG	4/3/2025	0.427	=
608	Uranium-238	pCi/L	FD	4/3/2025	0.384	=
608	Uranium-238	pCi/L	REG	5/14/2025	1	=
608	Uranium-238	pCi/L	REG	6/9/2025	0.221	=
608	Uranium-238	pCi/L	REG	7/10/2025	0.262	=
608	Uranium-238	pCi/L	REG	8/20/2025	0.701	=
608	Uranium-238	pCi/L	REG	9/2/2025	0.299	=
608	Uranium-238	pCi/L	REG	10/6/2025	0.396	=
608	Uranium-238	pCi/L	REG	11/3/2025	0.454	=
608	Uranium-238	pCi/L	REG	12/1/2025	0.53	=
611	Americium-241	pCi/L	REG	3/3/2025	-0.0157 U	U
611	Americium-241	pCi/L	REG	6/9/2025	-0.0127 U	UJ
611	Americium-241	pCi/L	REG	8/13/2025	-2.74E-09 U	U
611	Americium-241	pCi/L	REG	12/1/2025	0.0236 U	U
611	Neptunium-237	pCi/L	REG	3/3/2025	0.0185 U	U
611	Neptunium-237	pCi/L	REG	6/9/2025	-0.0273 U	U
611	Neptunium-237	pCi/L	REG	8/13/2025	0.0879 U	U
611	Neptunium-237	pCi/L	REG	12/1/2025	0.0733 U	U
611	Plutonium-238	pCi/L	REG	3/3/2025	0.02 U	U
611	Plutonium-238	pCi/L	REG	6/9/2025	0.0248 U	U
611	Plutonium-238	pCi/L	REG	8/13/2025	0.0272 U	U
611	Plutonium-238	pCi/L	REG	12/1/2025	-0.00223 U	U
611	Plutonium-239/240	pCi/L	REG	3/3/2025	0.015 U	U
611	Plutonium-239/240	pCi/L	REG	6/9/2025	0.0248 U	U
611	Plutonium-239/240	pCi/L	REG	8/13/2025	0.00778 U	U

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
611	Plutonium-239/240	pCi/L	REG	12/1/2025	0.0208 U	U
611	Technetium-99	pCi/L	REG	1/2/2025	132	=
611	Technetium-99	pCi/L	REG	2/3/2025	314	=
611	Technetium-99	pCi/L	REG	3/3/2025	326	=
611	Technetium-99	pCi/L	REG	4/3/2025	506	=
611	Technetium-99	pCi/L	REG	5/14/2025	622	=
611	Technetium-99	pCi/L	REG	6/9/2025	547	=
611	Technetium-99	pCi/L	REG	7/10/2025	644	=
611	Technetium-99	pCi/L	REG	8/13/2025	795	=
611	Technetium-99	pCi/L	REG	9/2/2025	576	=
611	Technetium-99	pCi/L	REG	10/6/2025	561	=
611	Technetium-99	pCi/L	REG	11/3/2025	481	=
611	Technetium-99	pCi/L	REG	12/1/2025	569	=
611	Trichloroethene	µg/L	REG	1/2/2025	0.333 U	U
611	Trichloroethene	µg/L	REG	1/20/2025	0.333 U	U
611	Trichloroethene	µg/L	REG	2/3/2025	0.25 U	
611	Trichloroethene	µg/L	REG	2/17/2025	0.25 U	U
611	Trichloroethene	µg/L	REG	3/3/2025	0.333 U	
611	Trichloroethene	µg/L	REG	3/17/2025	0.333 U	
611	Trichloroethene	µg/L	REG	4/3/2025	0.333 U	U
611	Trichloroethene	µg/L	REG	4/23/2025	0.333 U	U
611	Trichloroethene	µg/L	REG	5/14/2025	0.333 U	U
611	Trichloroethene	µg/L	REG	5/19/2025	0.333 U	U
611	Trichloroethene	µg/L	REG	6/9/2025	0.333 U	
611	Trichloroethene	µg/L	REG	6/16/2025	0.333 U	
611	Trichloroethene	µg/L	REG	7/10/2025	0.25 U	
611	Trichloroethene	µg/L	REG	7/17/2025	0.333 U	
611	Trichloroethene	µg/L	REG	8/13/2025	0.37 J	J
611	Trichloroethene	µg/L	REG	8/18/2025	0.333 U	
611	Trichloroethene	µg/L	REG	9/2/2025	0.42 J	
611	Trichloroethene	µg/L	REG	9/22/2025	0.312 J	
611	Trichloroethene	µg/L	REG	10/6/2025	0.333 U	U
611	Trichloroethene	µg/L	REG	10/21/2025	0.333 U	
611	Trichloroethene	µg/L	REG	11/3/2025	0.49 J	J
611	Trichloroethene	µg/L	REG	11/17/2025	0.45 J	J
611	Trichloroethene	µg/L	REG	12/1/2025	0.54 J	J
611	Trichloroethene	µg/L	REG	12/15/2025	0.333 U	U
611	Uranium	µg/L	REG	1/2/2025	3.88	=
611	Uranium	µg/L	REG	2/3/2025	4.76	=

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
611	Uranium	µg/L	REG	3/3/2025	4.51	=
611	Uranium	µg/L	REG	4/3/2025	5.2	=
611	Uranium	µg/L	REG	5/14/2025	5.43	=
611	Uranium	µg/L	REG	6/9/2025	5.12	=
611	Uranium	µg/L	REG	7/10/2025	4.67	=
611	Uranium	µg/L	REG	8/13/2025	7.1	=
611	Uranium	µg/L	REG	9/2/2025	5.4	=
611	Uranium	µg/L	REG	10/6/2025	4.49	=
611	Uranium	µg/L	REG	11/3/2025	4.74	=
611	Uranium	µg/L	REG	12/1/2025	7.78	=
611	Uranium-233/234	pCi/L	REG	1/2/2025	3.16	=
611	Uranium-233/234	pCi/L	REG	2/3/2025	4.43	=
611	Uranium-233/234	pCi/L	REG	3/3/2025	4.57	=
611	Uranium-233/234	pCi/L	REG	4/3/2025	5.75	=
611	Uranium-233/234	pCi/L	REG	5/14/2025	5.36	=
611	Uranium-233/234	pCi/L	REG	6/9/2025	5.21	=
611	Uranium-233/234	pCi/L	REG	7/10/2025	4.64	=
611	Uranium-233/234	pCi/L	REG	8/13/2025	8.89	=
611	Uranium-233/234	pCi/L	REG	9/2/2025	4.6	=
611	Uranium-233/234	pCi/L	REG	10/6/2025	4.12	=
611	Uranium-233/234	pCi/L	REG	11/3/2025	4.04	=
611	Uranium-233/234	pCi/L	REG	12/1/2025	7.97	=
611	Uranium-235/236	pCi/L	REG	1/2/2025	0.178	=
611	Uranium-235/236	pCi/L	REG	2/3/2025	0.35	=
611	Uranium-235/236	pCi/L	REG	3/3/2025	0.268	=
611	Uranium-235/236	pCi/L	REG	4/3/2025	0.359	=
611	Uranium-235/236	pCi/L	REG	5/14/2025	0.221	=
611	Uranium-235/236	pCi/L	REG	6/9/2025	0.277	=
611	Uranium-235/236	pCi/L	REG	7/10/2025	0.225	=
611	Uranium-235/236	pCi/L	REG	8/13/2025	0.456	=
611	Uranium-235/236	pCi/L	REG	9/2/2025	0.236	=
611	Uranium-235/236	pCi/L	REG	10/6/2025	0.271	=
611	Uranium-235/236	pCi/L	REG	11/3/2025	0.158	=
611	Uranium-235/236	pCi/L	REG	12/1/2025	0.419	=
611	Uranium-238	pCi/L	REG	1/2/2025	1.28	=
611	Uranium-238	pCi/L	REG	2/3/2025	1.55	=
611	Uranium-238	pCi/L	REG	3/3/2025	1.48	=
611	Uranium-238	pCi/L	REG	4/3/2025	1.69	=
611	Uranium-238	pCi/L	REG	5/14/2025	1.79	=

TCE and radionuclides at NPDES outfalls associated with groundwater treatment facilities – 2025

Monitoring Location	Chemical Name	Unit	Sample type	Collection date	Result & lab qualifier	Validation qualifier
611	Uranium-238	pCi/L	REG	6/9/2025	1.68	=
611	Uranium-238	pCi/L	REG	7/10/2025	1.54	=
611	Uranium-238	pCi/L	REG	8/13/2025	2.32	=
611	Uranium-238	pCi/L	REG	9/2/2025	1.78	=
611	Uranium-238	pCi/L	REG	10/6/2025	1.47	=
611	Uranium-238	pCi/L	REG	11/3/2025	1.57	=
611	Uranium-238	pCi/L	REG	12/1/2025	2.55	=

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