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File: MD, Brunswick; Brunswick Yard; 9415381

October 27, 2021

Maryland Department of the Environment
Oil Control Program
Waste Management Administration
1800 Washington Blvd., Suite 620
Baltimore, Maryland 21230-1719

Quarterly Report – Second Quarter 2021
CSXT Brunswick Yard, Brunswick, Maryland
MDE Case No. 1994-1379-FR

To Mr. Psenicnik.:

Please find attached the *Quarterly Report – Second Quarter 2021* for the above referenced site. This site is an active rail yard. This report summarizes the activities completed in the Second Quarter of 2021, including groundwater and LPH monitoring and LPH recovery completed in accordance with the *Remedial Recovery and Monitoring Plan (RRMP)* dated May 23, 2017 and the MDE *RRMP Approval* letter dated December 20, 2017. The activities outlined in the *RRMP* and *RRMP Approval* letter will continue to be implemented progressively in the Third Quarter 2021. If you have any questions or concerns, please do not hesitate to contact me at (518) 767-6049.

Sincerely,

William Parry, CGWP, PG
Manager Environmental Remediation

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Mr. Nicholas Psenicnik
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Date: October 27, 2021
Our Ref: 30056695
Subject: Quarterly Report – Second Quarter 2021
CSXT Brunswick Yard, Brunswick, Maryland
CSXT Project # 9415381

Dear Mr. Psenicnik:

On behalf of CSX Transportation, Inc. (CSXT), Arcadis U.S., Inc. (Arcadis) has prepared this quarterly report presenting the results of work performed during the second quarter of 2021 (April through June) at the CSXT Brunswick Yard (herein referred to as “the Site”) in Brunswick, Maryland. The work performed was implemented pursuant to the Remedial Recovery and Monitoring Plan (RRMP) approval letter dated December 20, 2017.

The RRMP was developed following a review of historical investigation results, which supported a transition to a risk-based management plan for the Site that would include long-term periodic monitoring and no active remediation. The recommendation is founded in a multiple lines of evidence approach, in which historical fluid level gauging data, groundwater monitoring data, the current and historical monitoring well network and extent of liquid phase hydrocarbon (LPH) impacts, LPH recovery, evaluation of LPH transmissivity, and quantification of natural source zone depletion rates are included. To reinforce this finding, transitional and post-remedial monitoring plans were included in the RRMP to further guide the Site to an optimized scope of work focused on evaluating pertinent Site conditions while maintaining compliance with applicable regulatory guidance. Site activities completed in second quarter of 2021 are outlined below.

The specific Site transition plan activities conducted during this reporting period included:

- Groundwater and LPH elevation monitoring to further develop existing hydrographs. The hydrographs were visually examined for trends in groundwater elevation and LPH thickness to determine if LPH is stable or if conditions exist that suggest LPH has the potential to be migrating.
- Manual LPH recovery was conducted at wells where greater than 0.2 feet of LPH was present at the time of gauging.
- LPH monitoring and recovery data was assessed to supplement previous findings regarding the feasibility of ongoing LPH mass removal from the subsurface, both manually and hydraulically.
- A round of representative groundwater sampling to further assess dissolved-phase plume stability.

In addition to the completed activities listed above and as shown on **Table 1**, a schedule of upcoming transitional and post-remedial Site activities is outlined in **Table 2**.

Transitional LPH Recovery and Monitoring Activities

Multiple lines of evidence, developed through historical collection of data including data collected during the second quarter of 2021, demonstrate LPH plume stability and continue to support a transition in Site management to a risk based LPH management strategy.

Since December 2017, a transitional period of Site operation and maintenance, monitoring, and LPH recovery has been conducted to further develop the Site Conceptual Model, demonstrate data consistency, and strengthen the existing lines of evidence. These transitional activities are progressively guiding the Site from its former operational and monitoring status to an optimized scope of activities focused on evaluating existing conditions and potential risk, while maintaining the required compliance with applicable regulatory guidance. The following data were collected in the second quarter of 2021 to support this strategy.

Fluid Level Gauging

Quarterly site-wide gauging of accessible CSXT and National Park Service (NPS) monitoring wells, extraction wells, and collection sumps was conducted on June 16, 2021. The second quarter 2021 well gauging data are presented on **Table 3**, and hydrographs for wells that have historically had measurable LPH present are included as **Attachment 1**. Potentiometric groundwater elevation contours and measured LPH thicknesses from the June 2021 event are presented on **Figure 1**. In general, groundwater elevations measured during this reporting period are within the range of historically observed elevations, though elevations at a number of wells remain slightly elevated or near historical maximums as compared to historically collected measurements. As presented in previous reports, a period of sustained, historically high-water table elevations across the Site had been observed in 2019 and early 2020, and again in 2021.

Measurable LPH was detected in 21 wells during the second quarter 2021 (identified with bold print in the table below). All 21 wells where LPH was detected during the second quarter 2021 have historically had measurable LPH present, as well as having had LPH measured at least once during the previous 2020 and 2021 quarterly gauging events. During the event two wells, CSXT MW-28 & CSXT MW-29, were not accessible.

Site Wells with Historic Occurrences of Measurable LPH (1995-present)
Former Aboveground Storage Tank
CS-1, CS-2, CS-3, CSXT MW-02, CSXT MW-4R, CSXT MW-6R, CSXT MW-23, **CSXT MW-26**, CSXT MW-27, CSXT MW-28, CSXT MW-30, **CSXT MW-32**, CSXT MW-33, **CSXT MW-37**, **CSXT MW-38**, CSXT MW-39, **CSXT MW-41**, **CSXT MW-49**, **CSXT MW-53**, **CSXT MW-54**, **CSXT MW-55**, **CSXT MW-56**, **CSXT MW-57**, **CSXT MW-58**, **CSXT MW-59**, **CSXT MW-60**, **CSXT MW-61**, **CSXT MW-62**, **CSXT MW-63**, **CSXT MW-65**, **CSXT MW-67**, CSXT MW-68, CSXT MW-70, EW-1, EW-2, **EW-3**, EW-4, **EW-5**, EW-7 and NPS MW-04,.

Measurable LPH thicknesses were not detected in the area to the southeast of the former roundhouse during the second quarter of 2021. With the exception of CSXT MW-56, measured LPH thicknesses were within the historic range of seasonal fluctuation previously recorded in the areas to the east of the former fuel pump house, in the vicinity of the former aboveground storage tank, and west of the former roundhouse. When evaluating the recent fluid level measurements and LPH thicknesses at the wells, the following should be taken into consideration:

- All wells with LPH historically measured were redeveloped in March 2018 at the start of the RRMP implementation.
- The LPH skimmer system that began operations in 2009 was shut down prior to that redevelopment and remains inactive.

- Since December 2017, manual recovery of LPH from wells has been reduced from monthly to quarterly and only at wells with more than 0.2 feet of LPH present at the time of gauging.

Increases in LPH thickness measured at monitoring wells in 2018 at locations where the former LPH skimmer systems were operated (including CSXT MW-41, CSXT MW-53, CSXT MW-54, CSXT MW-55, and CSXT MW-56, as well as CSXT MW-60 and CSXT MW-63), have generally stabilized and fluctuate within a range of historical measurements, and are discussed in more detail below.

- Beginning in 2018, and subsequent to well redevelopment, LPH thicknesses were observed to have increased to measurements near or above the maximum historical range of LPH thicknesses at former wells where the active skimmer systems had been operating, as well as at wells CSXT MW-60 and CSXT MW-63. These increased measurements continued through the beginning of 2019. The increases generally coincided with an observed increase and/or sustained high groundwater elevation across the Site. This indicates the likely presence of a confining layer or layers in the subsurface in those areas and resulting confined LPH behavior, as opposed to the unconfined behavior observed when groundwater elevations have been lower in the formation. In prior gauging events, when elevated groundwater conditions occurred, the unconfined behavior of the subsurface may have been diminished or masked by the ongoing LPH recovery efforts at these wells. As noted, with the exception of CSXT MW-56, LPH thicknesses in these wells have since stabilized, and appear to fluctuate seasonally within a historic range with changes in groundwater elevation.
- In the absence of an active remedial system and reduced manual recovery frequency, the ranges in LPH thickness are greater when at equilibrium with the formation than previously observed. However, the thicknesses appear stable and support the LPH CSM for plume stability.
- The LPH thickness at CSXT MW-56 only slightly exceeded the historical maximum of 6.31 feet with the most recent measurement being 6.62 feet of LPH. The increase coincided with a drop in groundwater elevation to its lowest point since March 2017, resulting in typical unconfined behavior and the resulting increase in LPH thickness in the well. No other gauging at area wells resulted in a historical maximum reading, and the measurement is believed to represent a localized effect to seasonal fluctuation rather than an indication of a significant change in site conditions or indication of potential migration. The well, which is in the core of the LPH footprint, will continue to be monitored as part of routine site activities.
- LPH recovery efforts at the Site historically included the active skimming system, as well as implementation of passive skimming and manual LPH recovery events. Gauging data collected since the discontinued operation of the skimming system in the first quarter of 2018 as well as reduction in recovery frequency indicates LPH thicknesses may have only recently reached an equilibrium with the mobile LPH interval in the formation. However, the limited volume of LPH able to be recovered from these wells during subsequent manual recovery events is consistent with the findings of previously conducted transmissivity testing, which indicates ongoing LPH recovery is infeasible. Additionally, the results of tests, as previously reported, were below the Interstate Technology and Regulatory Council upper-bound criteria for feasible LPH recovery of 0.8 square feet per day indicating physical removal of the LPH by conventional hydraulic methods is likely impractical and would not significantly reduce LPH mass in the subsurface.

Groundwater Monitoring

Groundwater sampling was completed at a total of 18 CSXT and NPS monitoring wells during June 2021, as listed below. Monitoring wells CSXT MW-29 was not sampled as part of this event due to access issues at the location well head.

Wells Sampled in June 2021	
CSXT Wells:	CSXT MW-03, CSXT MW-6R, CSXT MW-22, CSXT MW-24, CSXT MW-25, CSXT MW-43, CSXT MW-51, CSXT MW-64, CSXT MW-69, CSXT MW-71
NPS Wells:	NPS MW-01, NPS MW-02, NPS MW-04, NPS MW-05, NPS MW-13, NPS MW-14, NPS MW-16, NPS MW-18

Groundwater samples were collected using disposable bailers, following removal of three well volumes, or following water-level recovery after wells were purged dry at locations with poor hydraulic connectivity and groundwater recovery to the well (CSXT MW-22, CSXT MW-25, NPS MW-1, NPS MW-5, and NPS MW-18). Field parameters (pH, specific conductance, dissolved oxygen, temperature, and redox potential) were collected after each volume was purged. Field logs from the second quarter 2021 groundwater sampling are included as **Attachment 3**.

The groundwater samples were shipped to TestAmerica Laboratories, located in Savannah, Georgia, under chain-of-custody for the following analyses:

- Volatile organic compounds including benzene, toluene, ethylbenzene, and xylene, naphthalene, methyl tert-butyl ether, tert-butyl alcohol, tert-amyl methyl ether, di-isopropyl ether, and ethyl-tert-butyl ether via United Stated Environmental Protection Agency (USEPA) Method 8260.
- Total petroleum hydrocarbons – diesel range organics (TPH-DRO) via USEPA Method 8015C.
- Total petroleum hydrocarbons – gasoline range organics (TPH-GRO) via USEPA Method 8015C.

Laboratory analytical reports are included as Attachment 4. Constituents detected during the second quarter 2021 groundwater sampling event are presented on **Table 4** and outlined on **Figure 2**. A summary of groundwater analytical results from June 2021 is included below:

- A total of six volatile organic compounds were detected in groundwater samples from 17 of the 18 sampled monitoring wells.
- TPH-GRO concentrations were detected in groundwater samples from 15 of the 18 sampled monitoring wells. TPH-GRO concentrations ranged from an estimated value of 0.048 J milligrams per liter (mg/L) (CSXT MW-51) to 4.8 mg/L (NPS MW-04).
- TPH-DRO concentrations were detected in groundwater samples from 14 of the 18 sampled monitoring wells. TPH-DRO concentrations ranged from an estimated value of 0.10 J mg/L (CSXT MW-24 & NPS MW-01) to 16 mg/L (CSXT MW-06R & NPS MW-04).

Dissolved-phase Groundwater Trend Monitoring

Statistical trending of dissolved-phase constituent concentrations at locations where measurable LPH has not observed in the well historically can be used to assess dissolved-phase plume stability. Stable or decreasing concentrations of dissolved LPH compounds in groundwater can subsequently be used as a line of evidence to indicate that the dissolved portion of the LPH plume is stable and/or decreasing in size.

As described in detail in the Risk Based LPH Management Work Plan (Arcadis 2016), the Air Force Center for Engineering and the Environment created the Monitoring and Remediation Optimization System (MAROS) program, which includes tools for non-parametric statistical concentration trend analyses using the Mann-Kendall statistical test. Groundwater concentrations of indicator constituents, selected based on LPH type or available historical analytical data for a site, are analyzed in MAROS using Mann-Kendall to determine the stability of the groundwater plume.

Since the implementation of the RRMP in 2018 and following well development at all wells within the groundwater sampling network, concentrations of DRO are not increasing in any of the sampled monitoring wells and indicate stable to decreasing trends. Previously reported concentrations at downgradient wells CSXT MW-69, NPS MW-13, and NPS MW-18 included the full historical data set and resulted in findings of potentially increasing to increasing trends. However, these low-level detections and resulting concentration trends likely represent a natural range in variability which over a longer set of time series data may show stable trends consistent with other wells at the Site. The prevalence of stable to decreasing trends during recent events (2018 to present), especially in monitoring wells located downgradient of areas where LPH is present, demonstrates that the dissolved-phase plume is stable or decreasing, which is an indication that the LPH footprint is also stable or decreasing. A summary of the MAROS evaluation is presented in **Table 5**.

LPH Recovery

Manual LPH recovery was conducted via peristaltic pump June 16, 2021 at monitoring wells with greater than 0.2 feet of measurable LPH. The volume of LPH removed at each well was recorded, and the recovered LPH was stored in on-site containers (e.g., 55-gallon drums). LPH recovery volumes are presented in **Table 3**.

Hydrographs depicting the historical fluid gauging data for LPH thickness, LPH recovery during the second quarter event, cumulative LPH recovery, and potentiometric groundwater elevations are included in **Attachment 2** for the wells listed below. A total of 14 wells, bolded below, had more than 0.2 feet of LPH present at the time of gauging in June 2021, and manual LPH recovery was performed.

Well Locations Included in Attachment 1 (Historical Gauging Data Charts)
CSXT MW-02, CSXT MW-04R, CSXT MW-26, CSXT MW-28, **CSXT MW-32**, CSXT MW-33, **CSXT MW-37**, **CSXT MW-38**, **CSXT MW-41**, **CSXT MW-49, CSXT MW-53**, **CSXT MW-54**, **CSXT MW-55**, **CSXT MW-56**, **CSXT MW-57**, CSXT MW-58, CSXT MW-59, **CSXT MW-60**, CSXT MW-61, CSXT MW-62, **CSXT MW-63**, **CSXT MW-67**, **CSXT EW-3**, CSXT EW-5, and CSXT EW-7.

Total LPH recovery in the second quarter of 2021 is approximately 12 gallons. Cumulative recovery since July 2009, including LPH recovered through the skimmer system, is approximately 1,459 gallons. Based on the LPH thicknesses measured in the wells and some conservative assumptions regarding borehole size, approximately 8 gallons of LPH was present in the well casing and 4 gallons were present in the borehole filter pack, totaling approximately 12 gallons of LPH collectively. The manual recovery of approximately 12 gallons from wells with more than 0.2 feet of LPH present was equal to the approximate 12 gallons calculated as present in those well casings and adjacent filter pack indicating generally limited LPH recharge to the wells from the formation across the Site, consistent with prior findings. LPH recovery volumes are presented in **Table 3**

Post Remedial Monitoring

The planned 2-year transition phase has been completed in accordance with the RRMP. A post-remedial monitoring plan will be implemented as a long-term solution to Site and risk management following approval by Maryland Department of the Environment (MDE). Additional data collected as part of the transition phase detailed in this document continue to support the findings of the RRMP that the LPH plume at the Site is stable and not migrating, LPH is no longer practically recoverable, and the remaining LPH in the subsurface will continue to be degraded by ongoing natural source zone depletion processes. Per MDE request in November 2019, the Post-Remedial Monitoring Recommendation (PRMR) Memo detailing the recommendations for post-remedial

monitoring implementation was submitted under separate cover on November 11, 2020. The following changes to current transitional activities were proposed:

- Well abandonment for redundancies in the monitoring well network.
- Fluid level gauging reduced from quarterly to bi-annually.
- Following confirmed ongoing stability of dissolved-phase TPH-DRO concentrations, groundwater monitoring reduced from biannually to annually.
- LPH recovery, by either active or manual means, no longer conducted.

Future Activities

The RRMP, dated May 23, 2017, and the MDE RRMP approval letter, dated December 20, 2017, outlines the remedial path forward for the Site. RRMP implementation commenced upon receipt of MDE approval in December 2017, and the included activities were completed over the planned 2-year transitional period. Data collected during the transitional period continue to support the lines of evidence presented in the RRMP for implementing risk based LPH management at the Site. Specifically, the LPH is stable and not migrating and has been recovered to the maximum extent practicable. Additionally, dissolved-phase constituent trends in groundwater since the RRMP was implemented are stable or decreasing in wells located within the residual portion of the LPH plume. In accordance with the RRMP, these observations support implementing post-remedial monitoring at the Site, which will include the continued reduction of monitoring activities and discontinuation of LPH recovery. Arcadis, on behalf of CSXT, submitted the PRMR Memo on November 11, 2020, recommending implementation of a post-remedial monitoring plan for MDE review and approval. The activities detailed in the RRMP and MDE's approval letter will continue to be implemented through 2021, as outlined in **Table 2**, until MDE approves implementing post-remedial monitoring.

The planned activities for third quarter 2021, pending MDE review and approval of the PRMR Memo include site wide synoptic water level measurements and LPH recovery at wells with more than 0.2 feet of LPH.

Please contact the undersigned at 410.923.7761 if you have any questions or require additional information regarding this correspondence.

Sincerely,
Arcadis U.S., Inc.

Joshua R. Wilson
Associate Project Manager

Albert Buell
Project Manager

Email: Albert.Buell@arcadis.com
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Enclosures:

Tables

1 Completed RRMP Site Activities
2 2021 Groundwater Gauging, Sampling, Remedial Action and Reporting Schedule
3 Well Gauging and LPH Recovery Summary (Second Quarter 2021)
4 Groundwater Analytical Summary (Second Quarter 2021)
5 MAROS TPH-DRO Concentration Trend Summary (2018-2021)

Figures

1 Groundwater Elevation Contours and LPH Thickness Map – June 16, 2021
2 Groundwater TPH-DRO Concentrations Map – June 16, 2021

Attachments

1 Hydrographs – Groundwater Elevations and LPH Thickness
2 LPH Recovery Data
3 Sample Logs
4 Lab Report
5 Historical Groundwater and Analytical Data

References

Arcadis. 2016. Risk Based LPH Management Work Plan. C&O Canal/CSXT Brunswick Rail Yard Brunswick, Maryland. January

Tables

Table 1
Completed RRMP Site Activities
Quarterly Report – Second Quarter 2021
Brunswick Yard, Brunswick, Maryland

Date	TASK				
	Groundwater and LPH Monitoring and Recovery[1,3]	Groundwater Sampling[2]	Remedial Recovery and Monitoring Plan Activities		
			Site Activities	Location Type	Location ID
June 2019	X				
September 2019	X	X	Transmissivity Testing (Bail Down)	Monitoring Well	CSXT MW-57 and CSXT MW-63
			Transmissivity (Skimming Test)	Monitoring Well	CSXT MW-49
			Transmissivity (Qualitative Test)	Monitoring Well	CSXT MW-02, CSXT MW-28, CSXT MW-33, CSXT MW-38, CSXT MW-58, CSXT MW-61, and CSXT MW-62
December 2019	X				
June 2020	X	X			
September 2020	X				
December 2020	X	X			
March 2021	X				
June 2021	X				

Abbreviations
CSXT - CSX Transportation, Inc.
EW - Extraction well
LPH - Liquid phase hydrocarbon
MW - Monitoring well
NPS - National Park Service
NSZD - Natural source zone depletion
USEPA - United States Environmental Protection Agency

Notes
1. LPH Monitoring will be conducted at a quarterly frequency through December 2021, per Maryland Department of the Environment approval and implementation of the Remedial Recovery and Monitoring Plan.
2. Groundwater sampling conducted on a semi-annual basis at monitoring wells CSXT MW-3, CSXT MW-6R, CSXT MW-22, CSXT MW-24, CSXT MW-25, CSXT MW-29, CSXT MW-43, CSXT MW-51, CSXT MW-64, CSXT MW-69, CSXT MW-
3. Site-wide synoptic water level and LPH measurements collected on a quarterly basis.

Table 2
2021 Groundwater Gauging, Sampling, Remedial Action and Reporting Schedule
Quarterly Report – Second Quarter 2021
Brunswick Yard, Brunswick, Maryland

Date	Task			
	LPH Monitoring and Recovery[1]	Groundwater Monitoring & Sampling[2,3]	Remedial Recovery and Monitoring Plan Activities[4,5]	Remedial Action Progress Report
June 2021	✓			
July 2021				
August 2021				✓ (for 2nd Quarter 2021)
September 2021	✓	✓	✓	
October 2021				
November 2021				✓ (for 3rd Quarter 2021)
December 2021	✓	✓	✓	
January 2022				
February 2022				✓ (for 4th Quarter 2021)
March 2022	✓	✓	✓	
April 2021				
May 2021				✓ (for 1st Quarter 2022)

Notes:

1. Liquid phase hydrocarbon (LPH) Monitoring and System Operation and Maintenance (O&M) will be conducted at a quarterly frequency through December 2021, per Maryland Department of the Environment (MDE) approval and implementation of the *Remedial Recovery and Monitoring Plan*.
2. Groundwater sampling will be conducted on a semi-annual basis at monitoring wells CSXT MW-3, CSXT MW-6R, CSXT MW-22, CSXT MW-24, CSXT MW-25, CSXT MW-29, CSXT MW-43, CSXT MW-51, CSXT MW-64, CSXT MW-69, CSXT MW-71, NPS MW-1, NPS MW-2, NPS MW-4, NPS MW-5, NPS MW-13, NPS MW-14, NPS MW-16, and NPS MW-18.

   The analytic parameters include full-suite volatile organic compounds (VOCs), including fuel oxygenates, using United States Environmental Protection Agency (USEPA) Method 8260 and total petroleum hydrocarbons/diesel-range organics (total petroleum hydrocarbons – diesel range organics [TPH-DRO]) by USEPA by Method 8015B. Field parameters including temperature, pH, and specific conductivity shall be measured during the well purging process. Groundwater samples will be collected after three well volumes have been purged from each well with new polyethylene bailers, provided there is no measurable LPH present in the well at the time of sampling.
3. Site-wide synoptic water level and LPH measurements and manual LPH recovery will be conducted on a quarterly basis.
4. Forty-five monitoring and extraction wells were redeveloped prior to the First Quarter 2018 groundwater sampling event in March 2018.
5. CSXT MW-21, CSXT MW-31, and CSXT MW-50 well abandonments, NSZD and transmissivity testing were be conducted during the Second Quarter 2018. Additional NSZD and transmissivity testing will be evaluated and conducted as needed in the Third and Fourth Quarters of 2018.
6. Any proposed modifications to *Remedial Recovery and Monitoring Plan* will be submitted to the MDE for approval prior to implementation.

Table 3
Well Gauging and LPH Recovery Summary
Quarterly Report - Second Quarter 2021
Brunswick Yard, Brunswick, Maryland

ARCADIS

Well ID	Well Casing Diameter (inches)	Measurement Date	Top of Casing Elevation (feet amsl)	DTLPH (feet bTOC)	DTW (feet bTOC)	LPH Thickness (feet)	Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)	LPH Recovery Method	LPH Present in Well Casing (gallons)	LPH Present in Filter Pack/Borehole (gallons)	LPH Recovered (mL)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
CS-1	4	06-16-2021	239.38	--	6.38	--	233.00	233.00		--	--		0.00	0.02
CS-2	4	06-16-2021	236.90	--	3.96	--	232.94	232.94		--	--		0.00	0.00
CS-3	4	06-16-2021	235.13	--	4.72	--	230.41	230.41		--	--		0.00	0.00
CS-4	4	06-16-2021	234.81	--	4.31	--	230.50	230.50		--	--		0.00	0.00
CS-5	4	06-16-2021	232.45	--	2.07	--	230.38	230.38		--	--		0.00	0.00
EW-1	6	06-16-2021	243.50	--	7.28	--	236.22	236.22		--	--		0.00	0.03
EW-2	6	06-16-2021	243.30	--	6.53	--	236.77	236.77		--	--		0.00	0.04
EW-3	6	06-16-2021	242.70	9.14	9.44	0.30	233.26	233.52	PP	0.44	0.14	1000	0.26	18.29
EW-4	6	06-16-2021	243.20	--	7.54	--	235.66	235.66		--	--		0.00	0.36
EW-5	6	06-16-2021	243.60	9.96	10.10	0.14	233.50	233.62	PP	0.21	0.06	NR	0.00	5.96
EW-6	6	06-16-2021	242.40	--	9.79	--	232.61	232.61		--	--		0.00	0.02
EW-7	6	06-16-2021	243.20	--	9.43	--	233.77	233.77		--	--		0.00	0.52
MW-01	4	06-16-2021	247.20	--	12.35	--	234.85	234.85		--	--		0.00	0.67
MW-02	4	06-16-2021	247.55	--	6.93	--	240.62	240.62		--	--		0.00	0.56
MW-03	4	06-18-2021	248.38	--	14.08	--	234.30	234.30		--	--		0.00	0.30
MW-04R	4	06-16-2021	244.68	--	4.95	--	239.73	239.73		--	--		0.00	2.51
MW-05	4	06-16-2021	245.37	--	10.54	--	234.83	234.83		--	--		0.00	1.66
MW-06R	4	06-17-2021	233.63	--	4.17	--	229.46	229.46		--	--		0.00	1.59
MW-08	4	06-16-2021	235.51	--	10.04	--	225.47	225.47		--	--		0.00	1.46
MW-09	4	06-16-2021	237.54	--	12.10	--	225.44	225.44		--	--		0.00	1.25
MW-20	4	06-16-2021	236.27	--	6.48	--	229.79	229.79		--	--		0.00	0.39
MW-22	4	06-17-2021	245.65	--	9.97	--	235.68	235.68		--	--		0.00	0.03
MW-23	4	06-16-2021	244.57	--	1.56	--	243.01	243.01		--	--		0.00	0.30
MW-24	4	06-18-2021	244.50	--	4.44	--	240.06	240.06		--	--		0.00	1.59
MW-25	4	06-18-2021	245.36	--	12.00	--	233.36	233.36		--	--		0.00	0.06
MW-26	4	06-16-2021	244.67	10.08	10.20	0.12	234.47	234.57	PP	0.08	0.03	NR	0.00	4.89
MW-27	4	06-16-2021	244.29	--	7.18	--	237.11	237.11		--	--		0.00	4.10
MW-28	4	06-18-2022	244.23	--	NM	--	NM	NM		--	--		0.00	0.17
MW-29	4	06-16-2021	243.74	--	NM	--	NM	NM		--	--		0.00	0.00
MW-30	4	06-16-2021	245.46	--	9.55	--	235.91	235.91		--	--		0.00	0.00
MW-32	4	06-16-2021	245.80	4.26	4.49	0.23	241.31	241.51	PP	0.15	0.06	4163	1.10	5.82
MW-33	4	06-16-2021	244.26	--	11.11	--	233.15	233.15		--	--		0.00	0.01
MW-35	4	06-16-2021	245.80	--	12.42	--	233.38	233.38		--	--		0.00	0.00
MW-37	4	06-16-2021	245.06	10.61	11.21	0.60	233.85	234.37	PP	0.39	0.15	1000	0.26	30.78
MW-38	4	06-16-2021	246.09	3.91	4.16	0.25	241.93	242.15	PP	0.16	0.06	550	0.15	88.67
MW-41	4	06-16-2021	246.07	10.79	12.78	1.99	233.29	235.02	PP	1.30	0.51	5488	1.45	183.12

Table 3
Well Gauging and LPH Recovery Summary
Quarterly Report - Second Quarter 2021
Brunswick Yard, Brunswick, Maryland

ARCADIS

Well ID	Well Casing Diameter (inches)	Measurement Date	Top of Casing Elevation (feet amsl)	DTLPH (feet bTOC)	DTW (feet bTOC)	LPH Thickness (feet)	Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)	LPH Recovery Method	LPH Present in Well Casing (gallons)	LPH Present in Filter Pack/Borehole (gallons)	LPH Recovered (mL)	LPH Recovered (gallons)	Total LPH Recovered Since July 2009 (gallons)
MW-43	4	06-17-2021	238.90	--	4.82	--	234.08	234.08		--	--		0.00	0.00
MW-49	4	06-16-2021	246.02	3.95	4.25	0.30	241.77	242.03		0.20	0.08	2500	0.66	51.31
MW-51	4	06-17-2021	249.34	--	8.68	--	240.66	240.66		--	--		0.00	0.00
MW-52	4	06-16-2021	247.00	--	7.66	--	239.34	239.34		--	--		0.00	0.00
MW-53	2	06-16-2021	246.10	10.84	13.08	2.24	233.02	234.97	PP	0.37	0.26	2450	0.65	191.95
MW-54	2	06-16-2021	245.60	10.41	11.95	1.54	233.65	234.99	PP	0.25	0.18	227	0.06	142.03
MW-55	2	06-16-2021	246.12	10.77	12.89	2.12	233.23	235.07	PP	0.35	0.24	3785	1.00	293.94
MW-56	2	06-16-2021	244.63	9.05	15.67	6.62	228.96	234.72	PP	1.08	0.76	6400	1.69	191.59
MW-57	2	06-16-2021	244.52	9.42	10.30	0.88	234.22	234.99	PP	0.14	0.10	250	0.07	45.05
MW-58	2	06-16-2021	244.42	10.45	10.46	0.01	233.96	233.97		0.00	0.00	NR	0.00	3.88
MW-59	4	06-16-2021	246.07	4.10	4.12	0.02	241.95	241.95		--	--		0.00	17.78
MW-60	4	06-16-2021	245.57	9.70	11.32	1.62	234.25	235.66	PP	1.06	0.42	5375	1.42	32.44
MW-61	4	06-16-2021	245.63	4.28	4.29	0.01	241.34	241.34		--	--		0.00	4.29
MW-62	4	06-16-2021	246.08	10.94	11.06	0.12	235.02	235.12		0.08	0.03	NR	0.00	7.58
MW-63	4	06-16-2021	246.25	11.20	13.50	2.30	232.75	234.75	PP	1.50	0.59	9000	2.38	114.63
MW-64	4	06-18-2021	245.45	--	3.49	--	241.96	241.96		--	--		0.00	0.00
MW-65	4	06-16-2021	245.54	4.58	4.59	0.01	240.95	240.95		--	--		0.00	1.77
MW-67	4	06-16-2021	245.83	10.38	11.40	1.02	234.43	235.32	PP	0.67	0.26	2500	0.66	4.83
MW-68	4	06-16-2021	245.09	--	3.15	--	241.94	241.94		--	--		0.00	0.00
MW-69	4	06-18-2021	244.98	--	10.83	--	234.15	234.15		--	--		0.00	0.01
MW-70	4	06-16-2021	245.57	--	11.48	--	234.09	234.09		--	--		0.00	0.35
MW-71	4	06-18-2021	246.21	--	12.02	--	234.19	234.19		--	--		0.00	0.00
NPS MW-01	4	06-17-2021	234.94	--	4.65	--	230.29	230.29		--	--		0.00	0.00
NPS MW-02	4	06-17-2021	237.19	--	3.61	--	233.58	233.58		--	--		0.00	0.00
NPS MW-03	4	06-16-2021	234.50	--	3.30	--	231.20	231.20		--	--		0.00	0.00
NPS MW-04	4	06-17-2021	238.50	--	4.56	--	233.94	233.94		--	--		0.00	0.00
NPS MW-05	4	06-17-2021	235.69	--	5.39	--	230.30	230.30		--	--		0.00	0.00
NPS MW-10	2	06-16-2021	237.73	--	4.34	--	233.39	233.39		--	--		0.00	0.00
NPS MW-12	2	06-16-2021	242.61	--	9.04	--	233.57	233.57		--	--		0.00	0.00
NPS MW-13	2	06-17-2021	234.72	--	9.46	--	225.26	225.26		--	--		0.00	0.00
NPS MW-14	2	06-17-2021	234.74	--	3.45	--	231.29	231.29		--	--		0.00	0.00
NPS MW-15	2	06-16-2021	234.38	--	5.01	--	229.37	229.37		--	--		0.00	0.00
NPS MW-16	2	06-17-2021	240.09	--	7.47	--	232.62	232.62		--	--		0.00	0.00
NPS MW-17	2	06-16-2021	242.71	--	9.86	--	232.85	232.85		--	--		0.00	0.00
NPS MW-18	4	06-17-2021	234.15	--	2.08	--	232.07	232.07		--	--		0.00	0.00
									Total:	8.42	3.93		11.81	1458.59

Notes:

amsl - above mean sea level
bTOC - below top of well casing
DTLPH- depth to liquid phase hydrocarbons
NR - LPH recovery not attempted
NM - Not Measured

DTW - depth to water
LPH - liquid phase hydrocarbon
PP - Peristaltic pump

* - Borehole diameter was estimated to be 2 inches larger than the well casing at each location, and a LPH specific yeild value of 0.175 (per ATSM E2856) was used to calculate borehole/filter pack storage capacity.

Table 4
Groundwater Analytical Summary (Second Quarter 2021)
Quarterly Report – Second Quarter 2021
Brunswick Yard, Brunswick, Maryland

ARCADIS

Location ID: Date Collected: Sample Name:	Units	CSXT MW-03 6/18/2021 CSXT MW-03 (061821)	CSXT MW-6R 6/17/2021 CSXT MW-06R (061721	CSXT MW-22 6/17/2021 CSXT MW-22 (061721)	CSXT MW-22 6/17/2021 DUP-01 (061721)	CSXT MW-24 6/18/2021 CSXT MW-24 (161821)	CSXT MW-25 6/18/2021 CSXT MW-25 (061821)	CSXT MW-43 6/17/2021 CSXT MW-43 (061721)	CSXT MW-51 6/17/2021 CSXT MW-51 (061721)	CSXT MW-64 6/18/2021 CSXT MW-64 (061821)	CSXT MW-69 6/18/2021 CSXT MW-69 (061821)
Detected Volatile Organics											
Ethylbenzene	ug/l	< 1.0 U	**0.50 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylcyclohexane	ug/l	< 1.0 U	**2.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.59 J**
Toluene	ug/l	**1.2**	**0.57 JB**	**0.71 JB**	**0.92 J**	**0.87 J**	**0.99 J**	**0.58 J**	**0.71 J**	**0.80 J**	**0.54 J**
Cyclohexane	ug/l	< 1.0 U	**1.7**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total Xylenes	ug/l	< 10 U	**2.0 J**	**1.6 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Isopropylbenzene	ug/l	< 1.0 U	**1.5**	**1.1**	**0.99 J**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Detected TPH											
C10-C28 Petroleum Hydrocarbons	mg/l	< 0.12 U	**16**	**11**	**9.2**	**0.1 J**	**1.60**	**0.75**	< 0.12 U	**1.90**	**3.6**
C6-C10 Petroleum Hydrocarbons	mg/l	**0.067 J**	**4**	**1.3**	**1.2**	**0.074 J**	**0.16**	**0.12**	**0.048 J**	**0.052 J**	**0.98**

Table 4
Groundwater Analytical Summary (Second Quarter 2021)
Quarterly Report – Second Quarter 2021
Brunswick Yard, Brunswick, Maryland

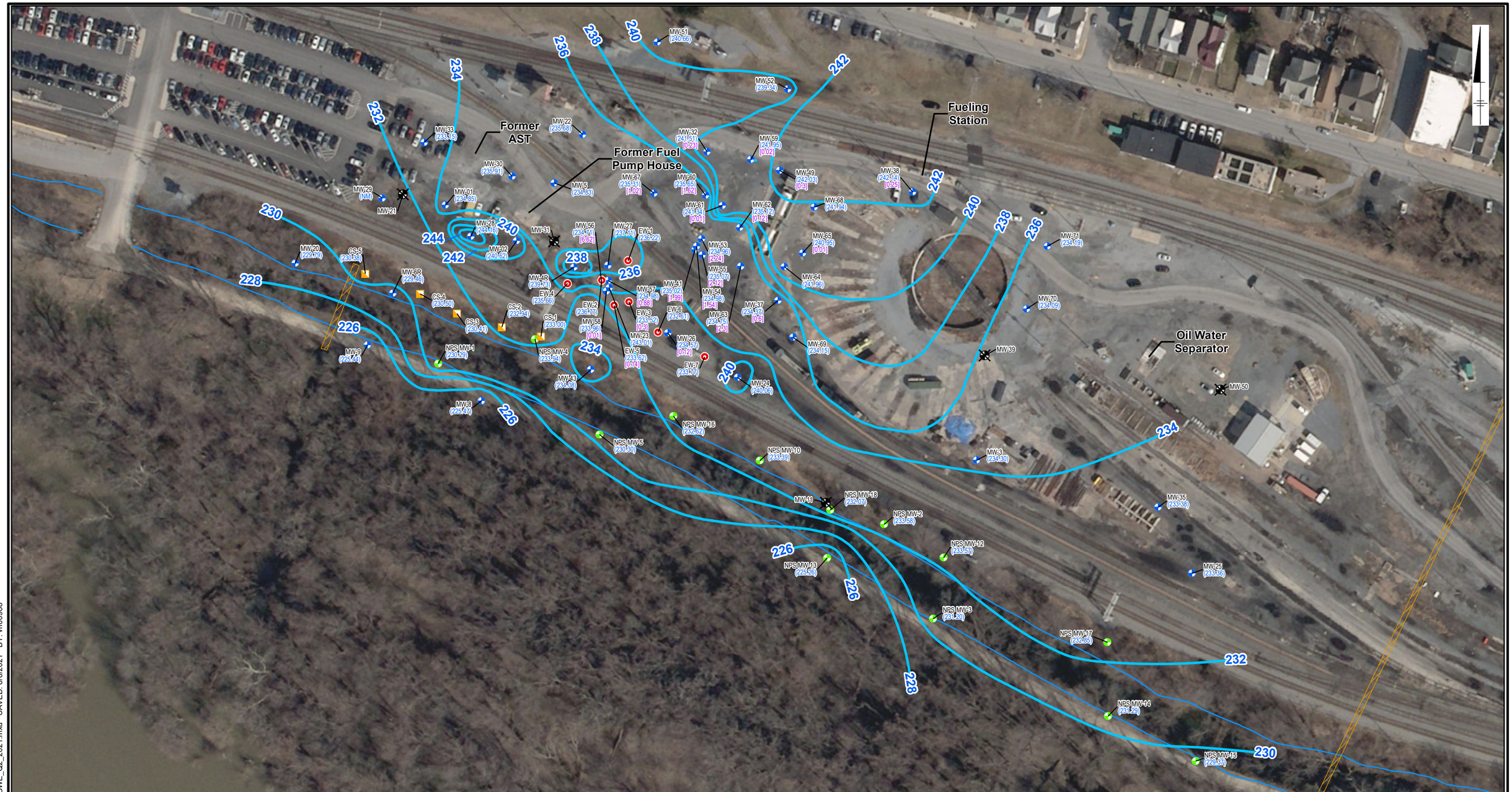
Location ID: Date Collected: Sample Name:	Units	CSXT MW-71 6/18/2021 CSXT MW-71 (061821)	NPS MW-01 6/17/2021 NPS MW-01 (061721)	NPS MW-02 6/17/2021 NPS MW-02 (061721)	NPS MW-04 6/17/2021 NPS MW-04 (061721)	NPS MW-05 6/17/2021 NPS MW-05 (061721)	NPS MW-13 6/17/2021 NPS MW-13 (061721)	NPS MW-14 6/17/2021 NPS MW-14 (061721)	NPS MW-16 6/17/2021 NPS MW-16 (061721)	NPS MW-18 6/17/2021 NPS MW-18 (061721)
Detected Volatile Organics										
Ethylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylcyclohexane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	**7.0**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	ug/l	**0.83 J**	**0.47 J**	< 1.0 U	< 1.0 U	**1.3**	**0.69 J**	**0.69 J**	**0.51 J**	**1.2**
Cyclohexane	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	**2.6**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total Xylenes	ug/l	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Isopropylbenzene	ug/l	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Detected TPH										
C10-C28 Petroleum Hydrocarbons	mg/l	< 0.12 U	**0.10 J**	**0.29**	**16**	**0.25**	**0.22**	< 0.12 U	**0.35**	**0.22**
C6-C10 Petroleum Hydrocarbons	mg/l	**0.091 J**	< 0.10 U	**0.052 J**	**4.80**	**0.052 J**	**0.049 J**	**0.67 J**	< 0.100 U	< 0.10 U

Table 5
MAROS TPH-DRO Concentration Trend Summary (2018-2020)
Quarterly Report – Second Quarter 2021
Brunswick Yard, Brunswick, Maryland

Well	Constituent of Concern	Number of Samples	Number of Detections	Coefficient of Variation	Mann-Kendall (S)	Confidence in Trend	Concentration Trend	Ratio of Detections	Corrected Concentration Trend
CSXT MW-03	PHC as DIESEL FUEL	7	4	0.274	-12	0.949	PD	57%	PD
CSXT MW-22	PHC as DIESEL FUEL	7	7	0.480	3	0.614	NT	100%	NT
CSXT MW-24	PHC as DIESEL FUEL	5	4	0.627	-10	0.992	D	80%	D
CSXT MW-25	PHC as DIESEL FUEL	7	7	0.422	-13	0.965	D	100%	D
CSXT MW-29	PHC as DIESEL FUEL	4	4	0.684	-6	0.958	D	100%	D
CSXT MW-43	PHC as DIESEL FUEL	7	7	0.577	-13	0.965	D	100%	D
CSXT MW-51	PHC as DIESEL FUEL	7	5	0.619	-13	0.965	D	71%	D
CSXT MW-64	PHC as DIESEL FUEL	7	7	1.163	-6	0.764	NT	100%	NT
CSXT MW-69	PHC as DIESEL FUEL	8	8	0.420	-15	0.958	D	100%	D
CSXT MW-71	PHC as DIESEL FUEL	7	5	0.509	-8	0.845	S	71%	S
NPS MW-01	PHC as DIESEL FUEL	7	7	0.549	-9	0.881	S	100%	S
NPS MW-02	PHC as DIESEL FUEL	7	7	0.505	-15	0.985	D	100%	D
NPS MW-05	PHC as DIESEL FUEL	7	7	0.398	-13	0.965	D	100%	D
NPS MW-13	PHC as DIESEL FUEL	7	6	0.572	-15	0.985	D	86%	D
NPS MW-14	PHC as DIESEL FUEL	7	5	1.116	-12	0.949	PD	71%	PD
NPS MW-16	PHC as DIESEL FUEL	7	7	0.434	-13	0.965	D	100%	D
NPS MW-18	PHC as DIESEL FUEL	7	6	0.417	-13	0.965	D	86%	D

ND	All results were non-detect
NT	Sufficient data for analysis, but no statistical trend resolved
D	Decreasing
PD	Probably Decreasing
S	Stable
PI	Probably Increasing
I	Increasing
N/A	Data not analyzed due to insufficient number of detections

Figures



LEGEND

- National Park Service Monitoring Well
- CSXT Monitoring Well
- Extraction Well
- Collection Sump
- Abandoned Monitoring Well
- Existing Canal
- Stone Drainage Culvert
- Groundwater Elevation Contour (Dashed Where Inferred)
- (234.71) Groundwater Elevation in Feet Mean Sea Level (MSL)
- [6.62] Liquid Phase Hydrocarbon Thickness (FT)
- (NM) Not Measured

0 100 200
SCALE IN FEET

Coordinate System: NAD 1983 StatePlane Maryland FIPS 1900 Feet
Imagery Source: ESRI World Imagery 2015

CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

GROUNDWATER ELEVATION CONTOURS AND LPH THICKNESSES MAP
JUNE 16, 2021

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: (KNOXVILLE) DIV/GROUP:(ENV/GIS) DB:(B.ALTOM) PIC:(J.MADDALENA) PM:(A.BUELL) TM:(L.BAUMGARTNER) PROJECT: MD000843.0013
PATH: T:_ENV\CSX_Brunswick\Q22021\Fig1_GWE_Q2_2021.mxd SAVED: 8/6/2021 BY: vri00988

LEGEND

- National Park Service Monitoring Well
- CSXT Monitoring Well
- Existing Canal
- Stone Drainage Culvert
- [0.25] Total Petroleum Hydrocarbon Diesel Range Organics (TPH-DRO) Concentration - JUNE 2021 (mg/L)

Notes:
mg/L - milligrams per Liter
[ ] - Duplicate sample results shown in brackets
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

0 100 200
SCALE IN FEET

Coordinate System: NAD 1983 StatePlane Maryland FIPS 1900 Feet
Imagery Source: ESRI World Imagery 2015

CSX TRANSPORTATION, INC.
BRUNSWICK, MARYLAND

TPH-DRO CONCENTRATION IN GROUNDWATER JUNE 2021

ARCADIS Design & Consultancy for natural and built assets

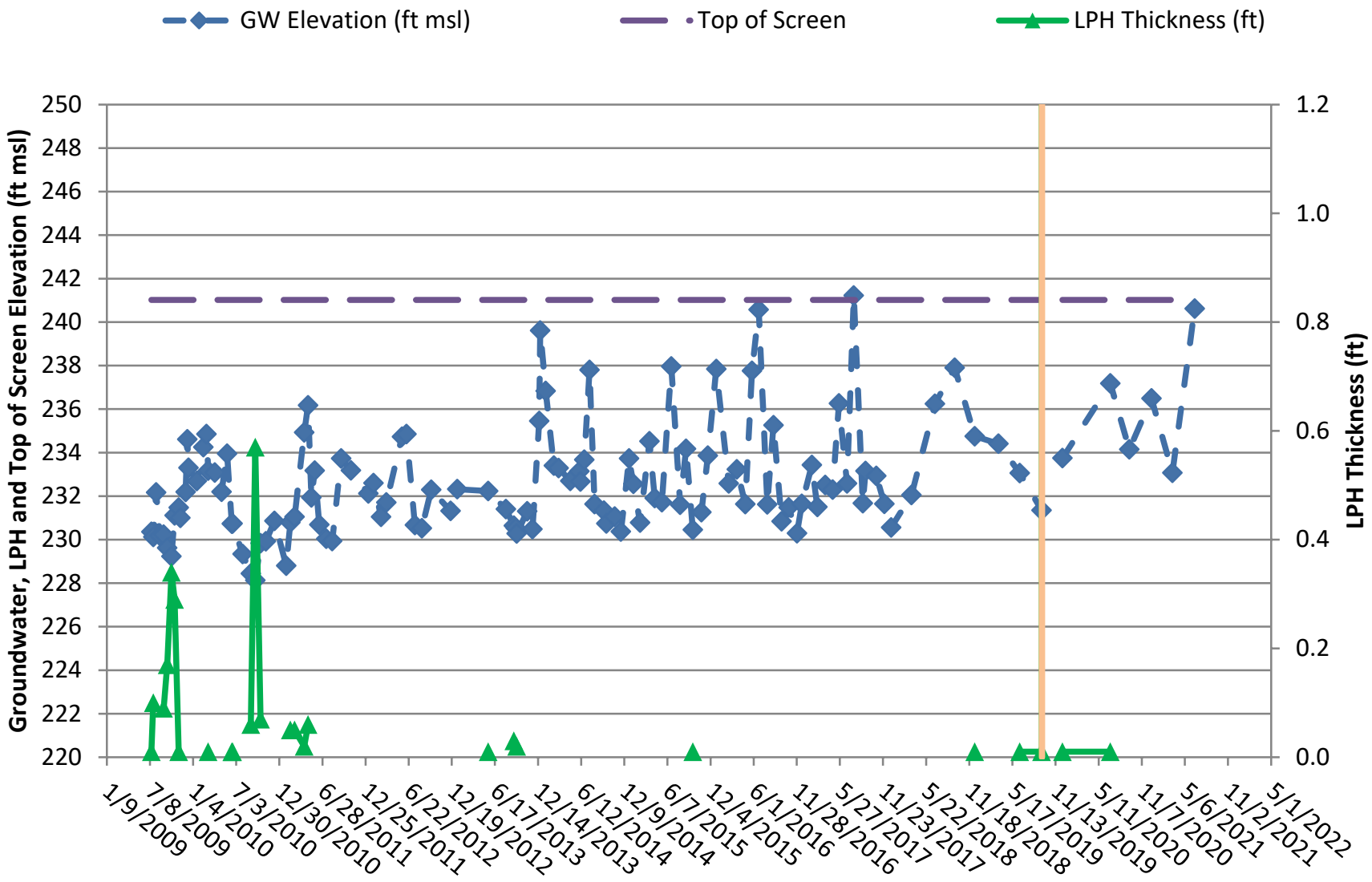
FIGURE
2

CITY: (KNOXVILLE) DIV/GROUP:(ENV/GIS) DB:(B.ALTOM) PIC:(J.MADDALENA) PM:(A.BUELL) TM:(L.BAUMGARTNER) PROJECT: MD000843.0013
PATH: T:_ENV\CSX_Brunswick\Q32021\Fig2_DRO_ANALYTICAL_Q3_2021.mxd SAVED: 10/25/2021 BY: vri00988

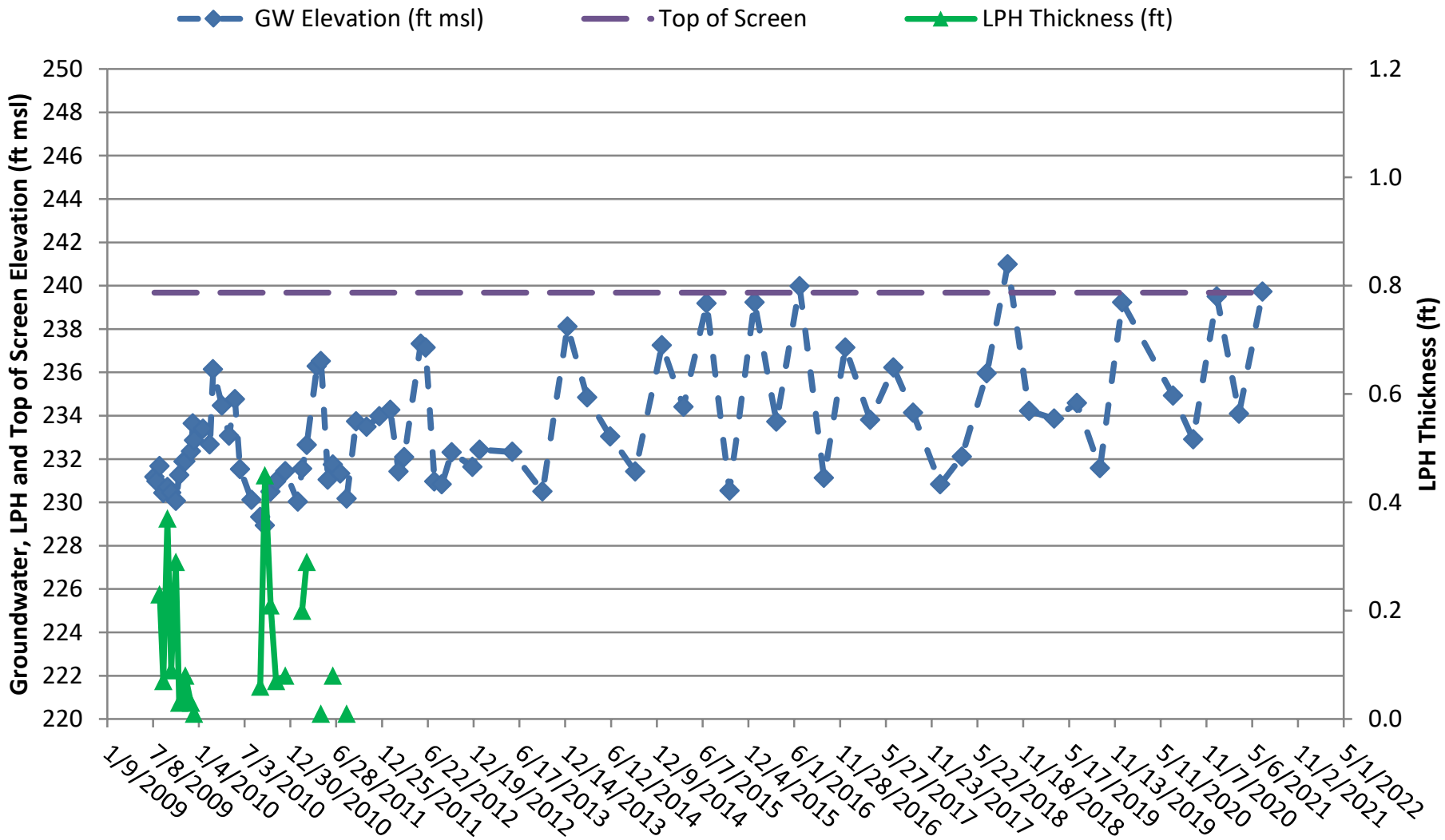
Attachment 1

Hydrographs – Groundwater Elevations and LPH Thickness

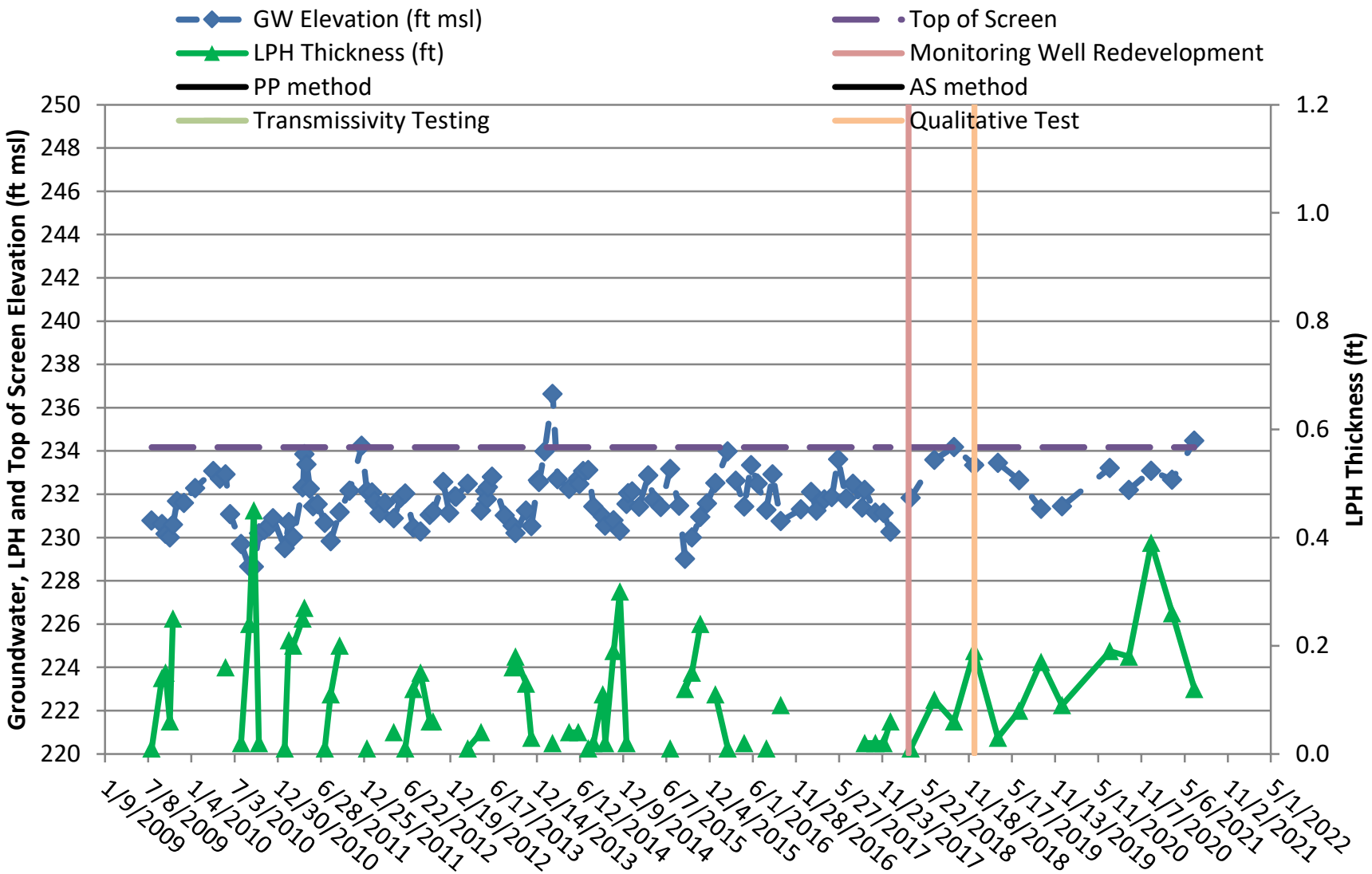
LPH and Groundwater Elevations and LPH Recovery: MW-2
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland



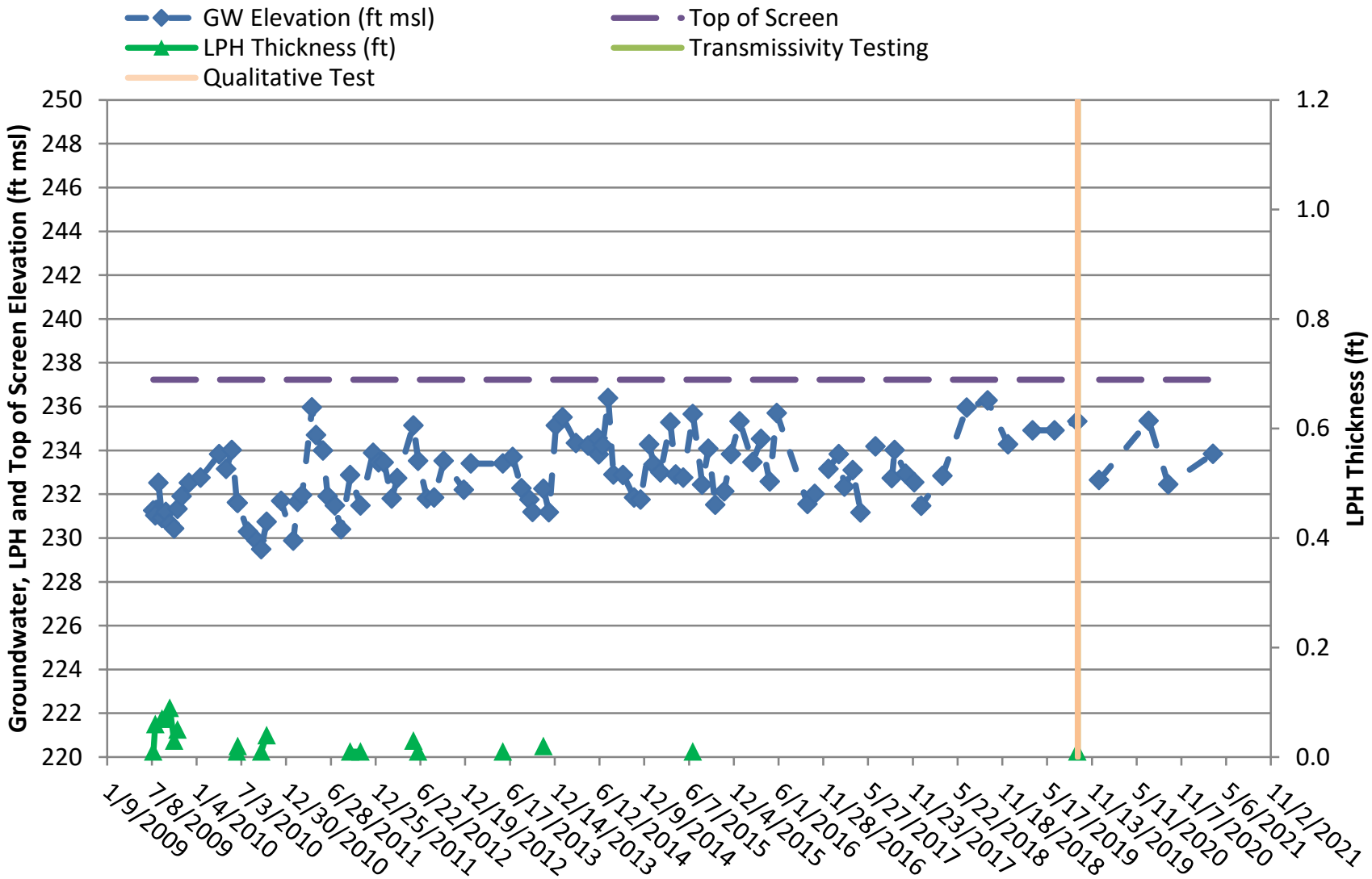
LPH and Groundwater Elevations and LPH Recovery: MW-4R
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland



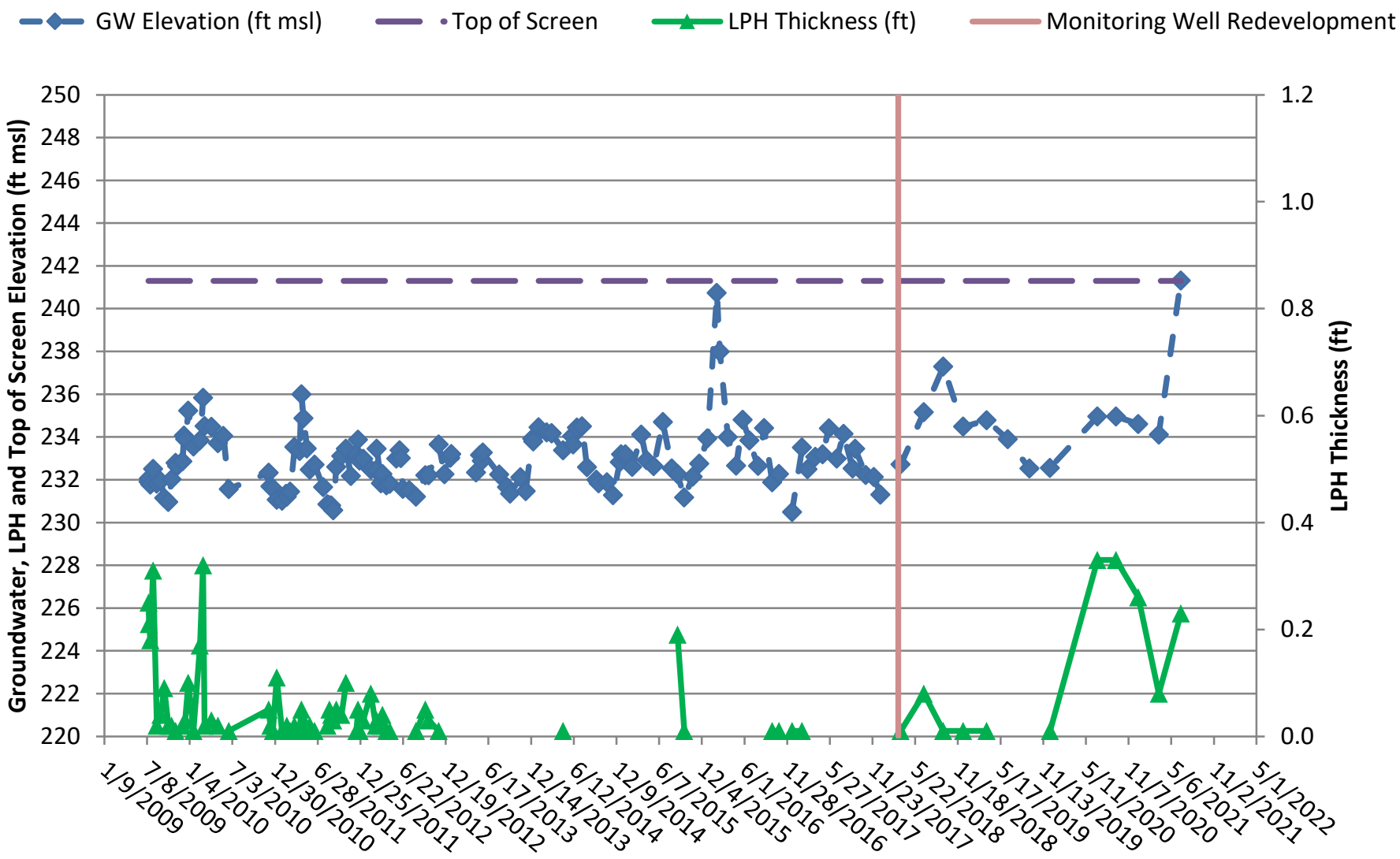
LPH and Groundwater Elevations and LPH Recovery: MW-26
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland

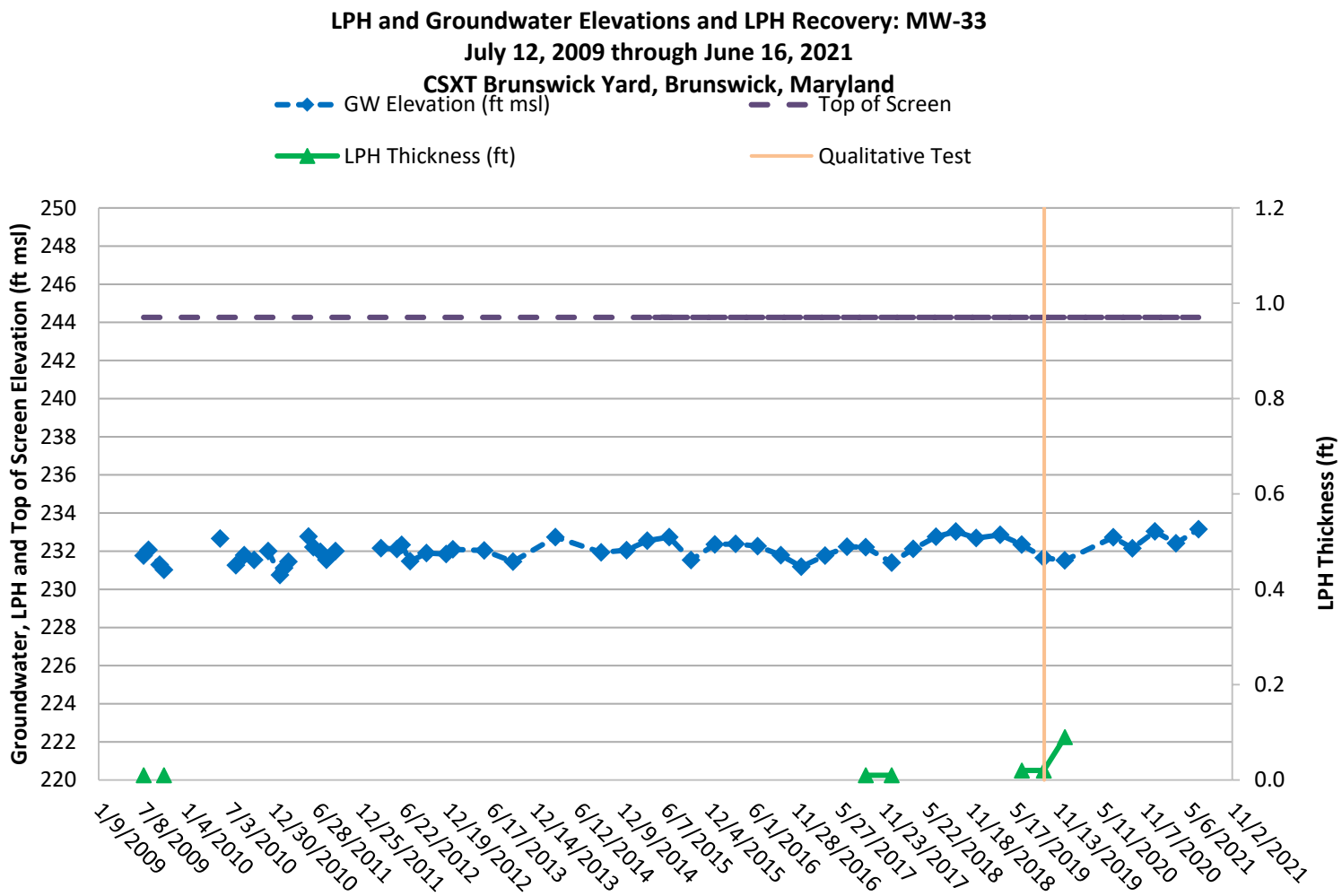


LPH and Groundwater Elevations and LPH Recovery: MW-28
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland



LPH and Groundwater Elevations and LPH Recovery: MW-32
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland




LPH and Groundwater Elevations and LPH Recovery: MW-33
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
Top of Screen
LPH Thickness (ft)
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
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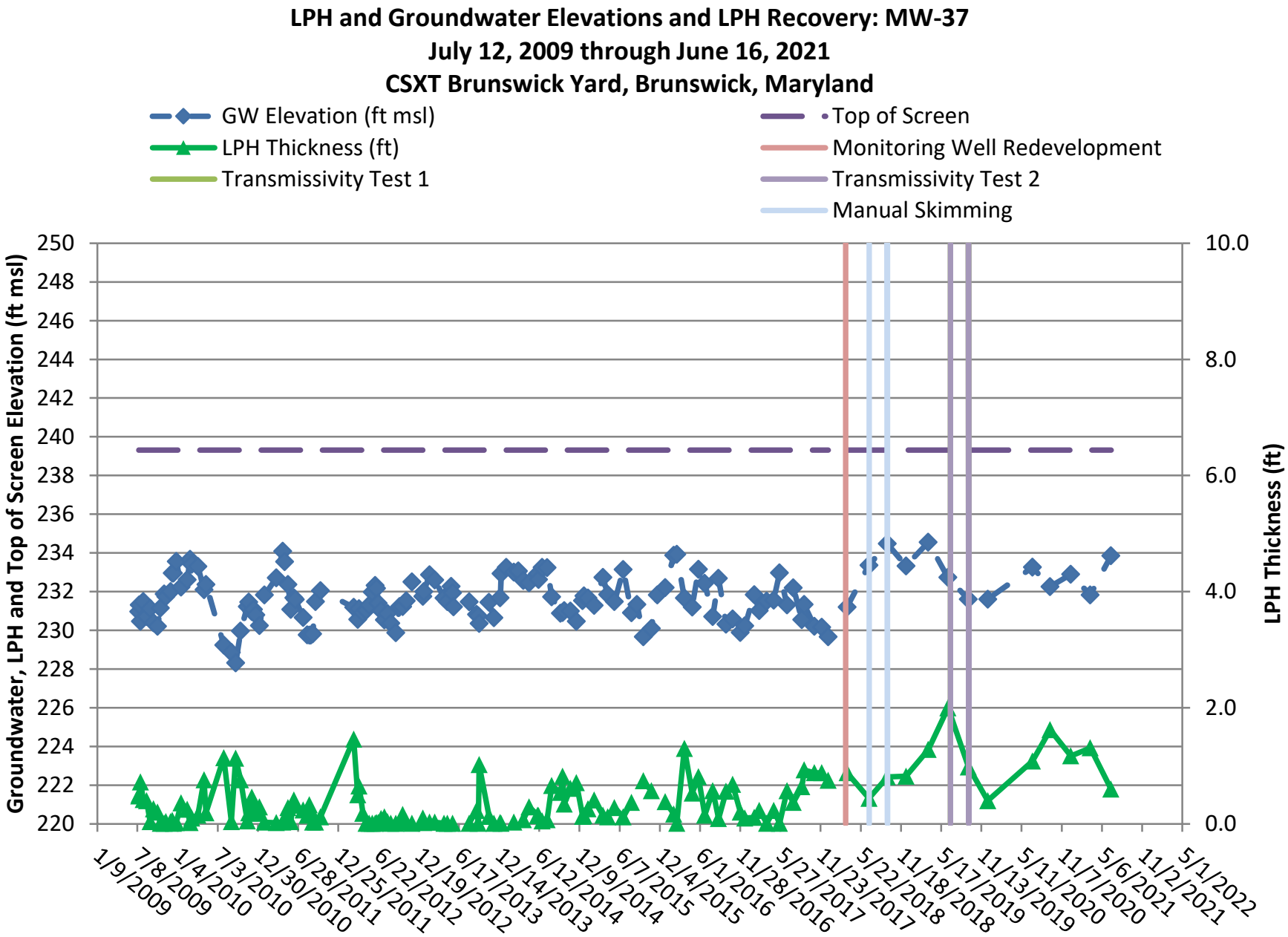
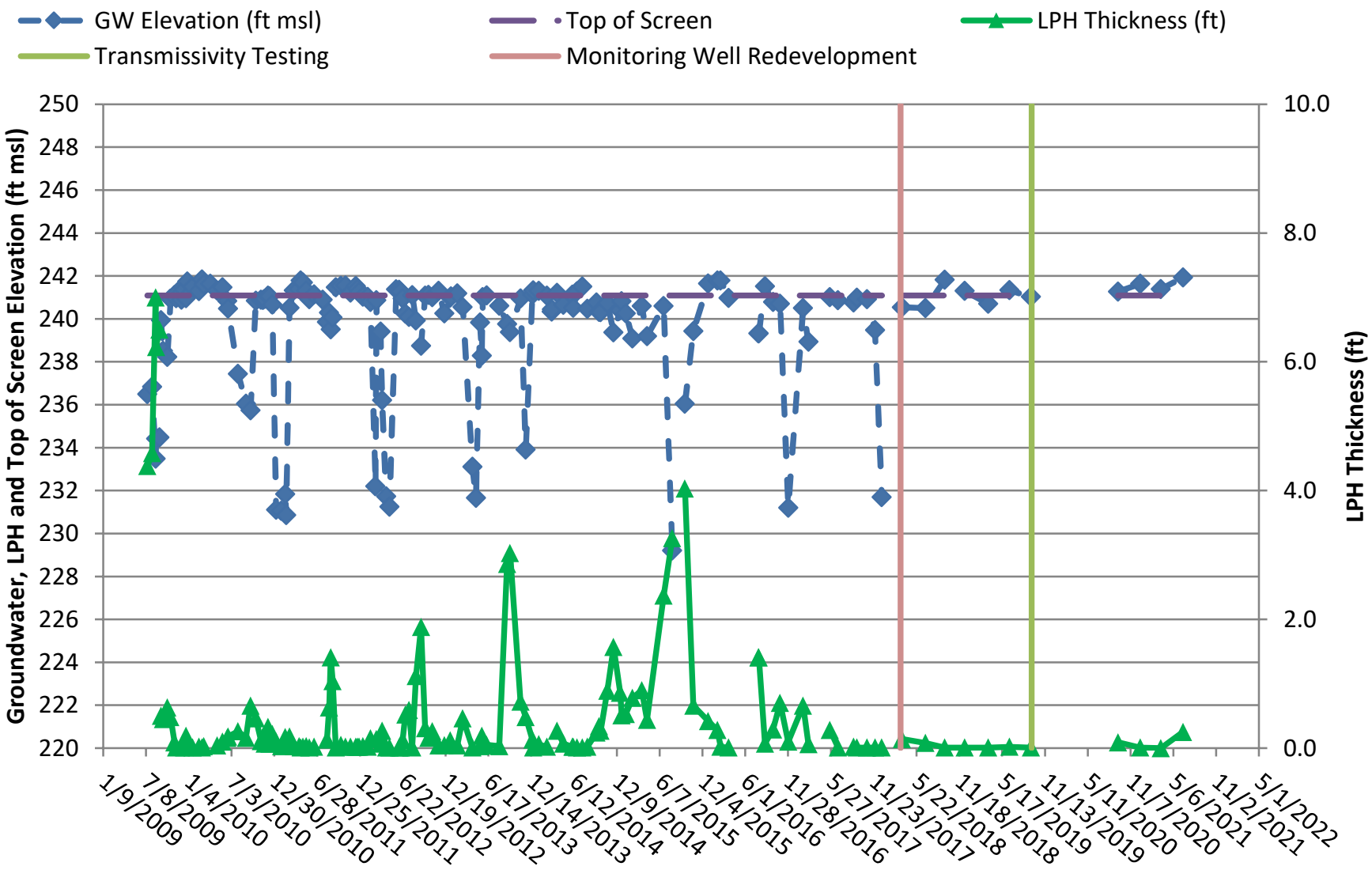
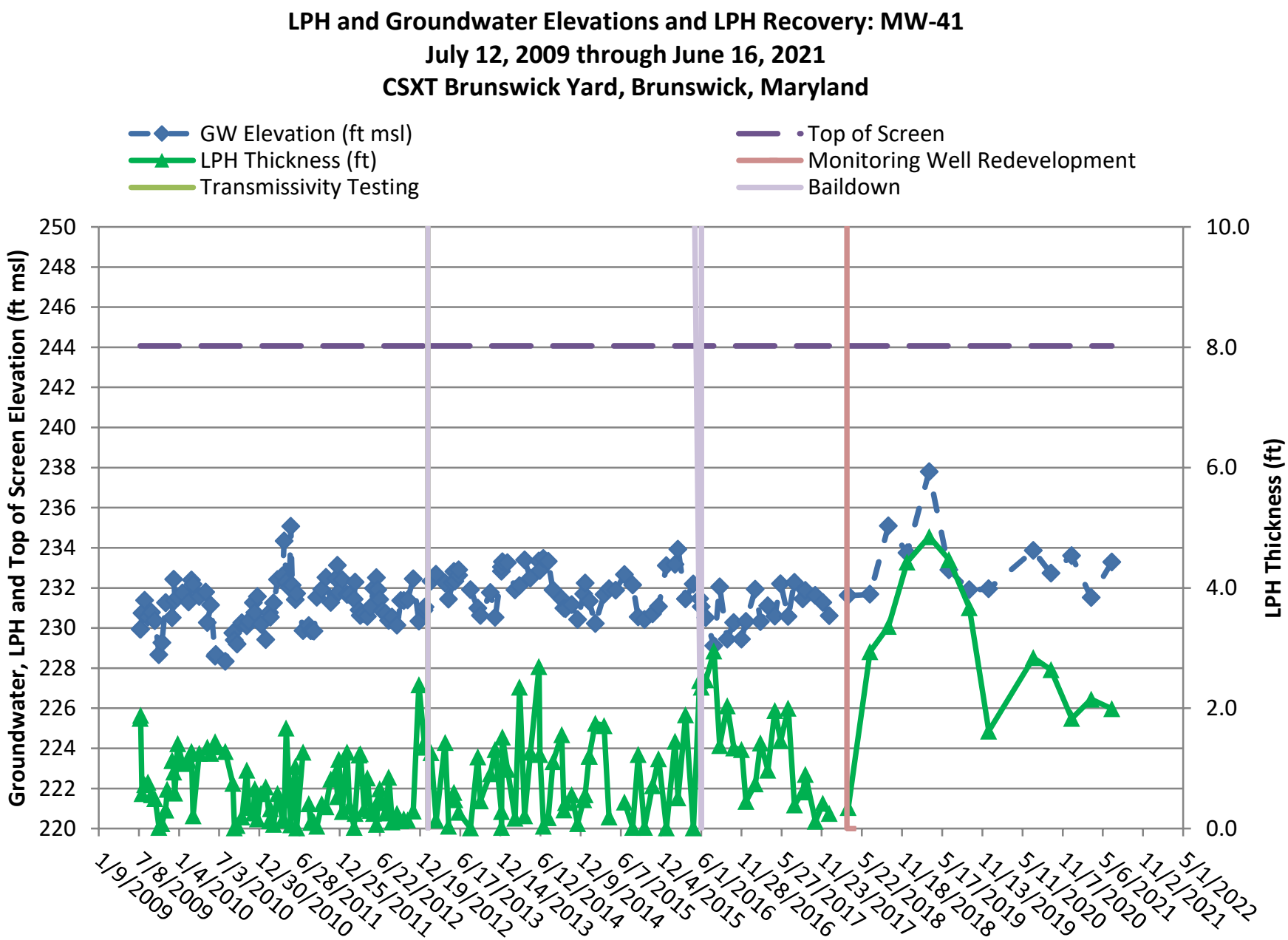
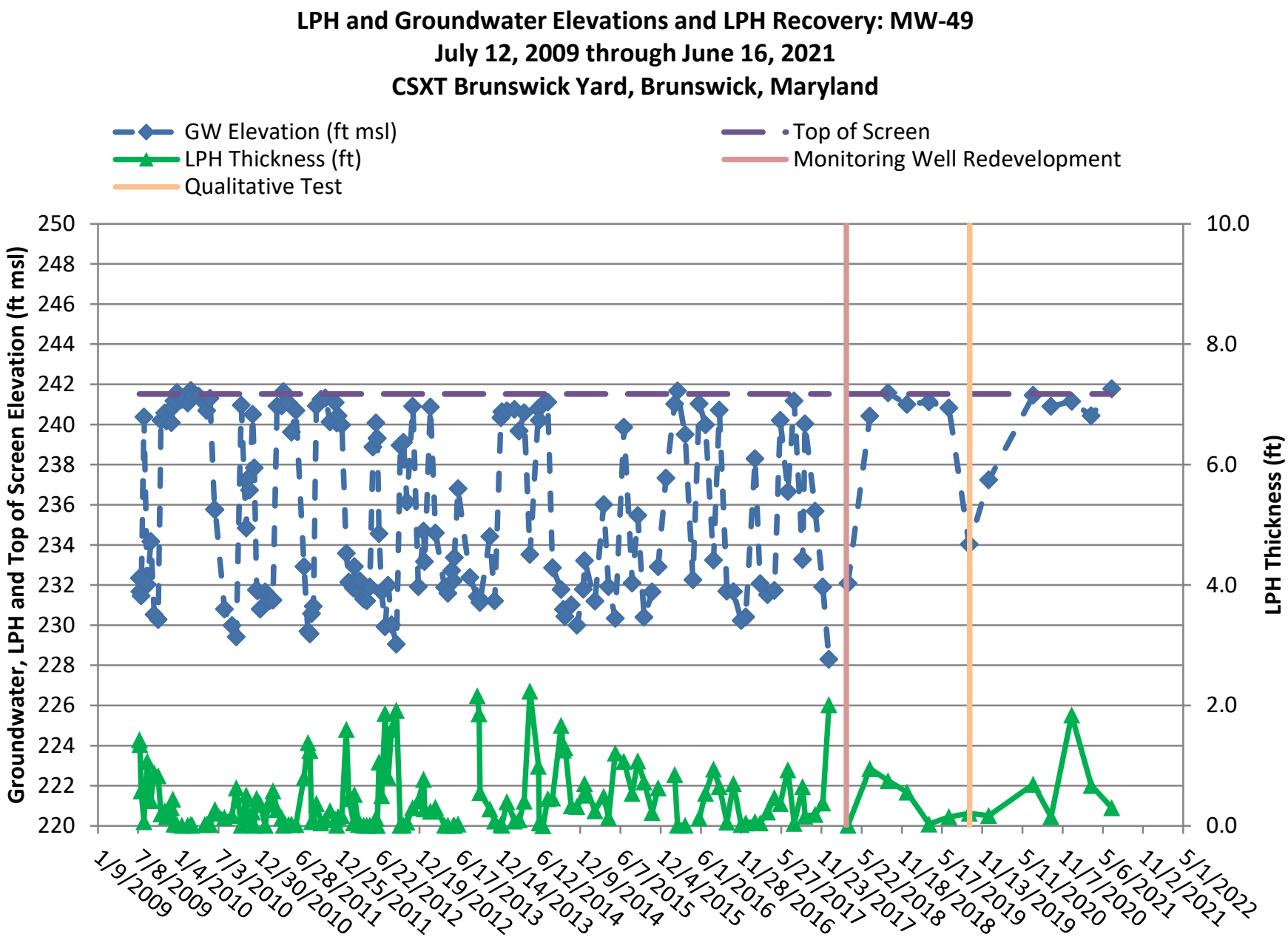
5/6/2021
11/2/2021


LPH and Groundwater Elevations and LPH Recovery: MW-37
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Transmissivity Test 1
Top of Screen
Monitoring Well Redevelopment
Transmissivity Test 2
Manual Skimming
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

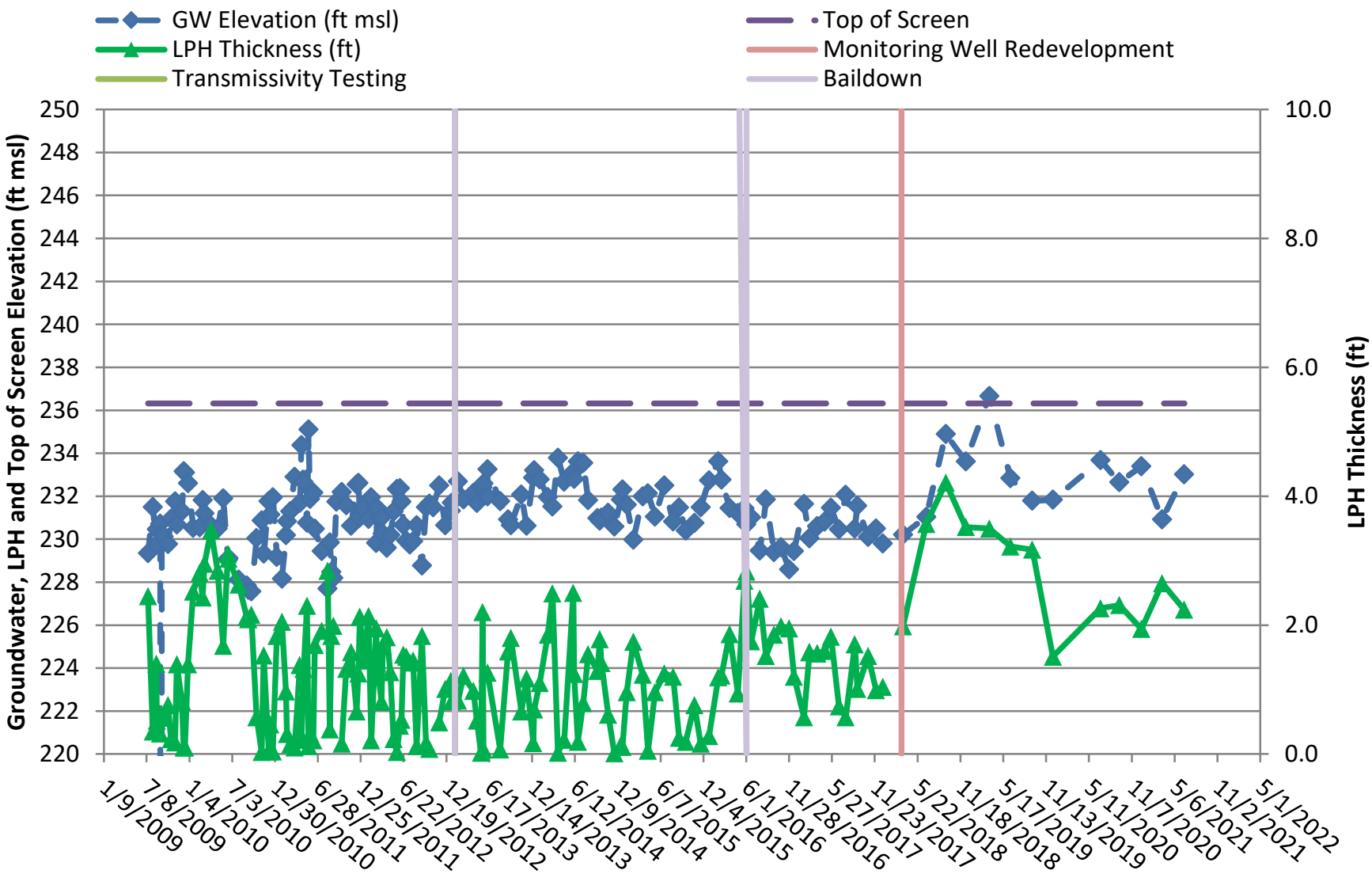
LPH and Groundwater Elevations and LPH Recovery: MW-38
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland

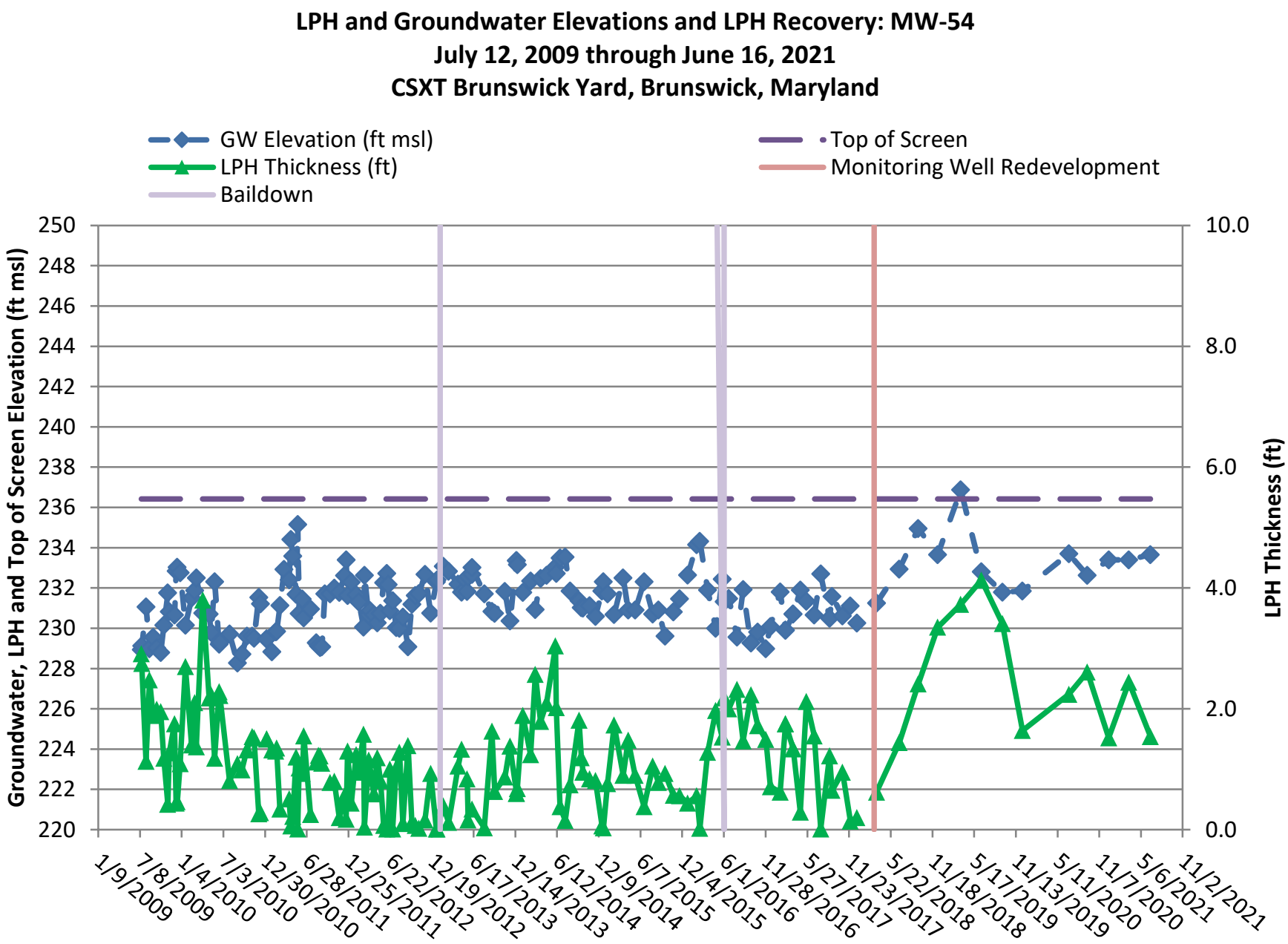



LPH and Groundwater Elevations and LPH Recovery: MW-41
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Transmissivity Testing
Top of Screen
Monitoring Well Redevelopment
Baildown
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022


LPH and Groundwater Elevations and LPH Recovery: MW-49
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Qualitative Test
Top of Screen
Monitoring Well Redevelopment
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

LPH and Groundwater Elevations and LPH Recovery: MW-53
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland




LPH and Groundwater Elevations and LPH Recovery: MW-54
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Baildown
Top of Screen
Monitoring Well Redevelopment
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
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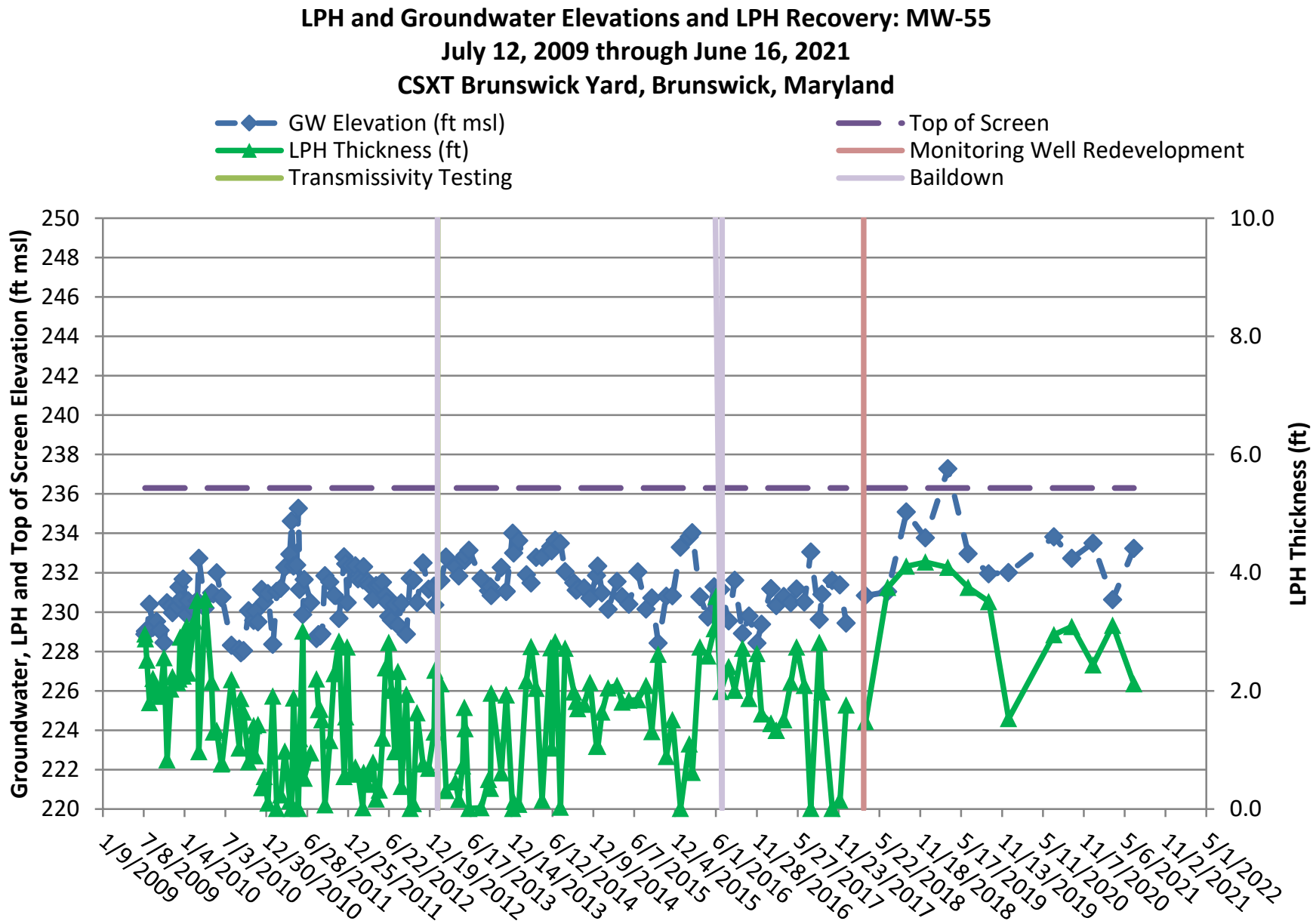
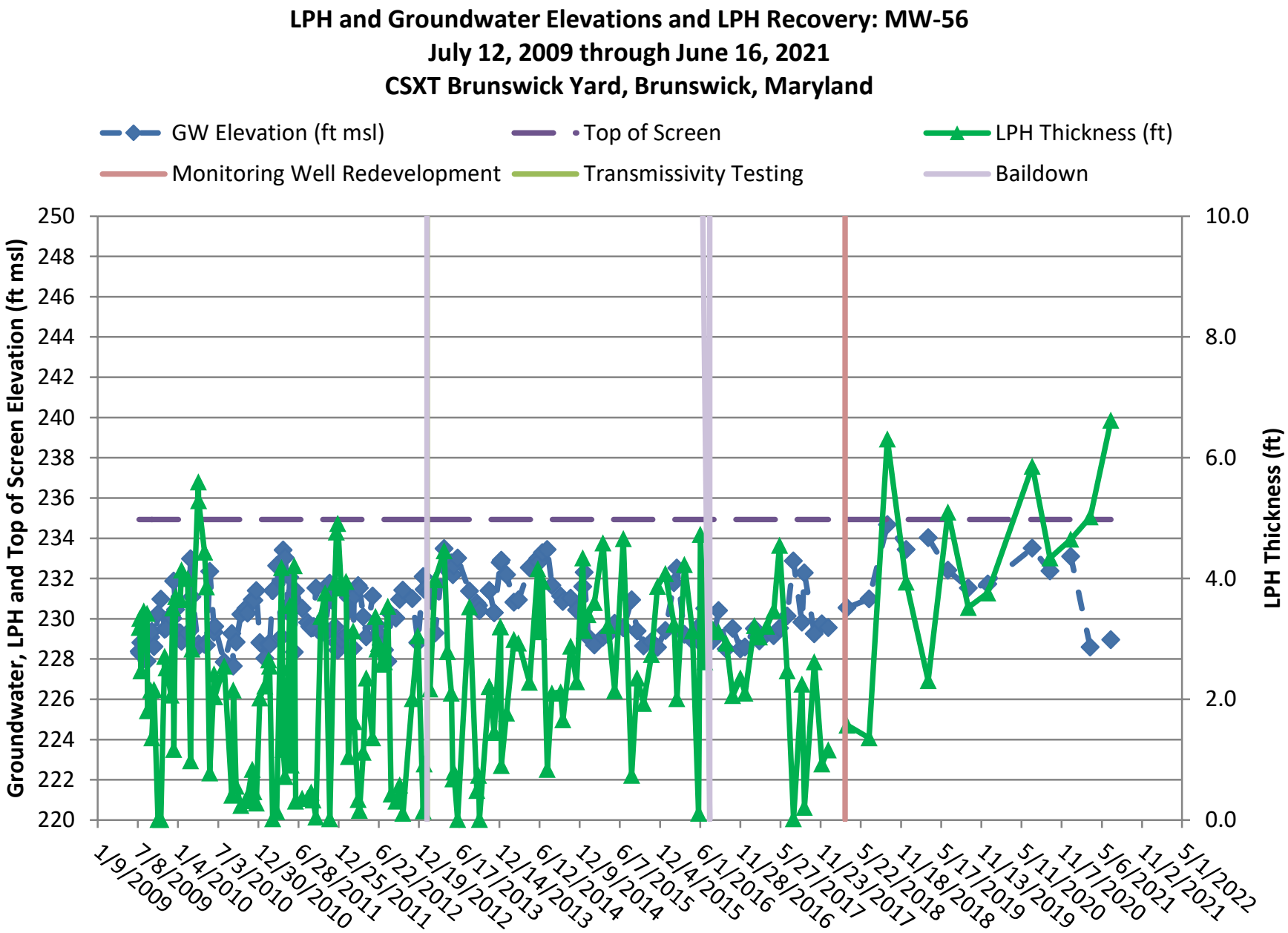
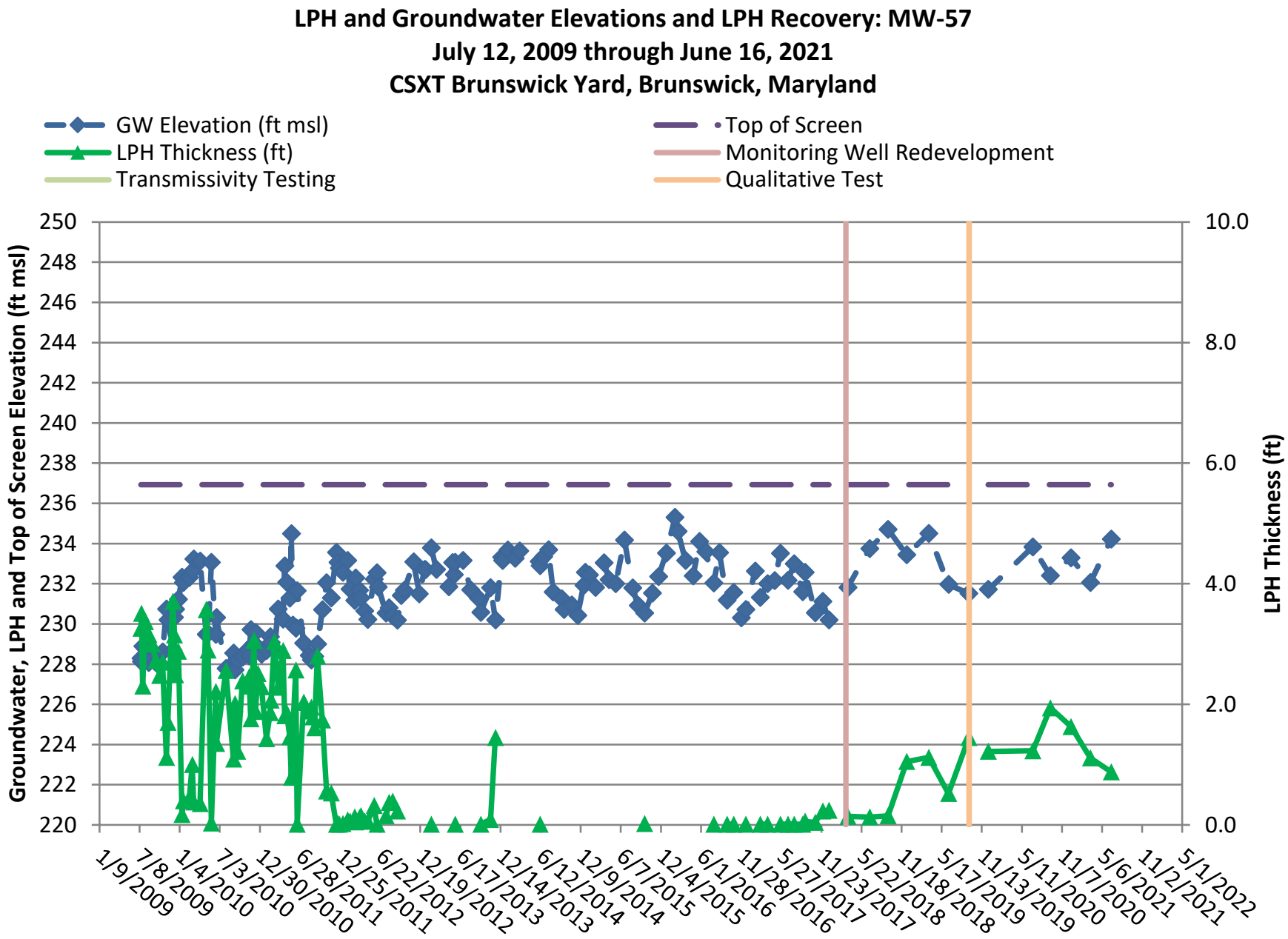
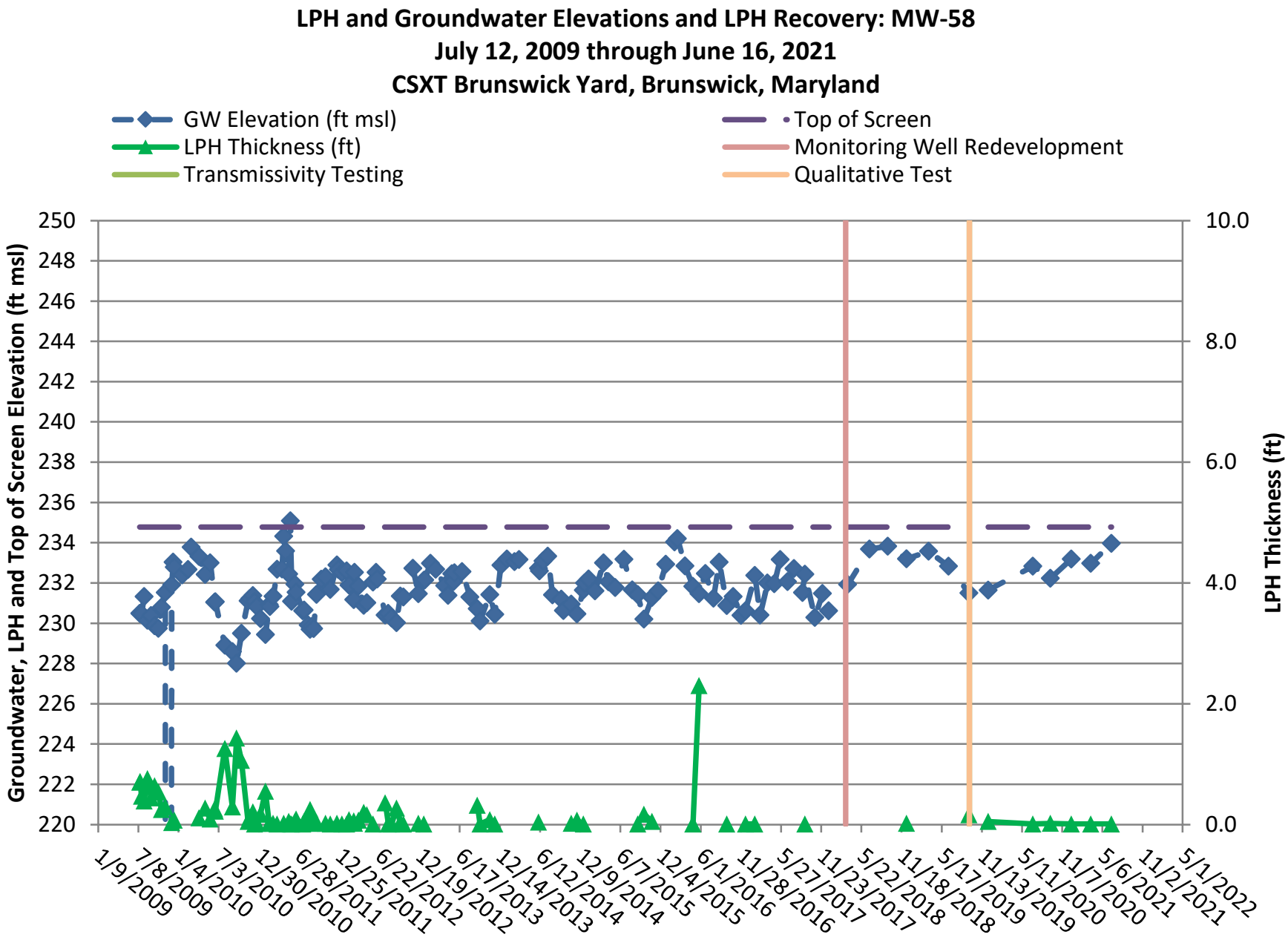
5/6/2021
11/2/2021

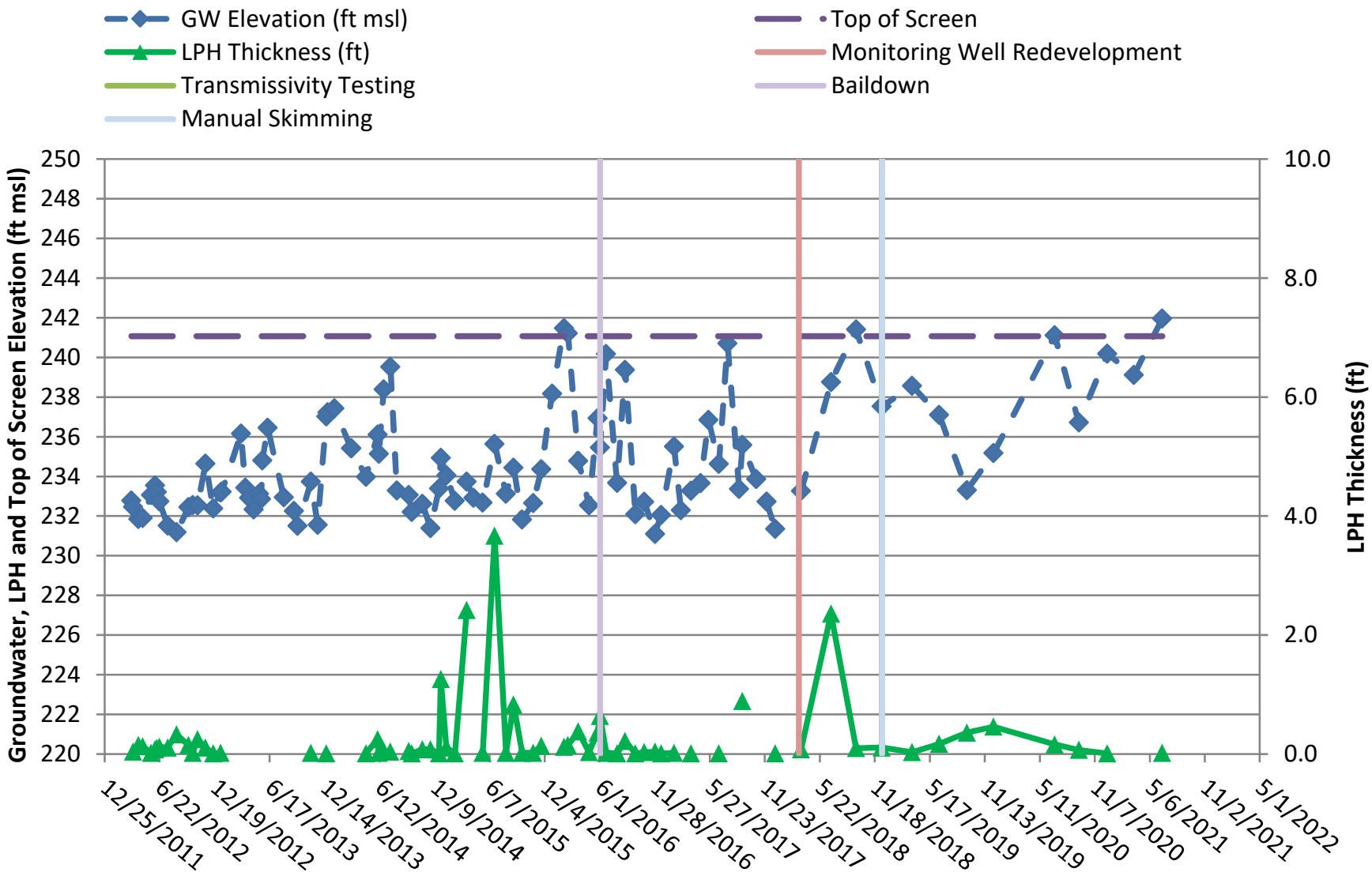

LPH and Groundwater Elevations and LPH Recovery: MW-55
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Transmissivity Testing
Top of Screen
Monitoring Well Redevelopment
Baildown
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022


LPH and Groundwater Elevations and LPH Recovery: MW-56
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
Top of Screen
LPH Thickness (ft)
Monitoring Well Redevelopment
Transmissivity Testing
Baildown
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

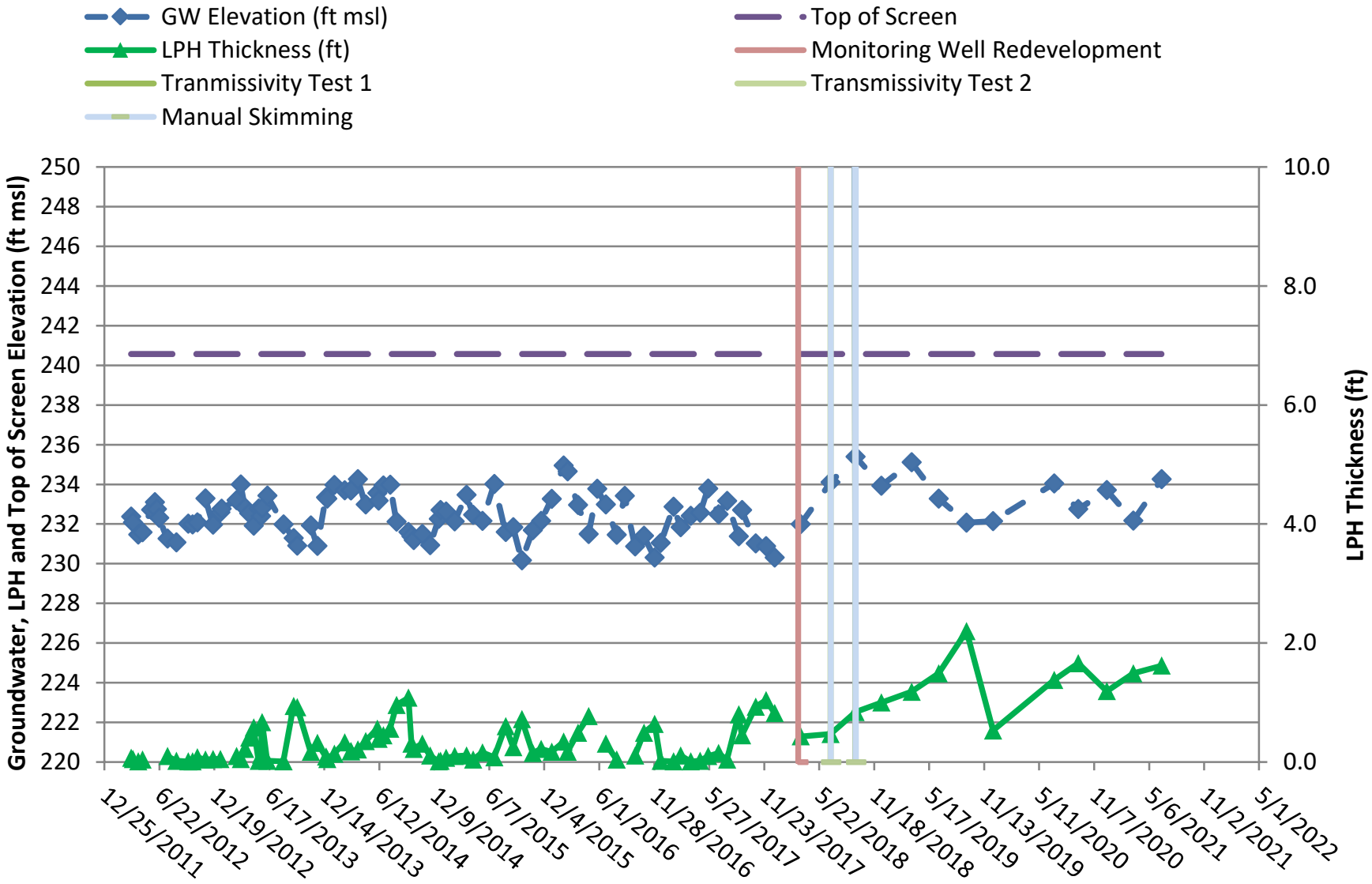

LPH and Groundwater Elevations and LPH Recovery: MW-57
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Transmissivity Testing
Top of Screen
Monitoring Well Redevelopment
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

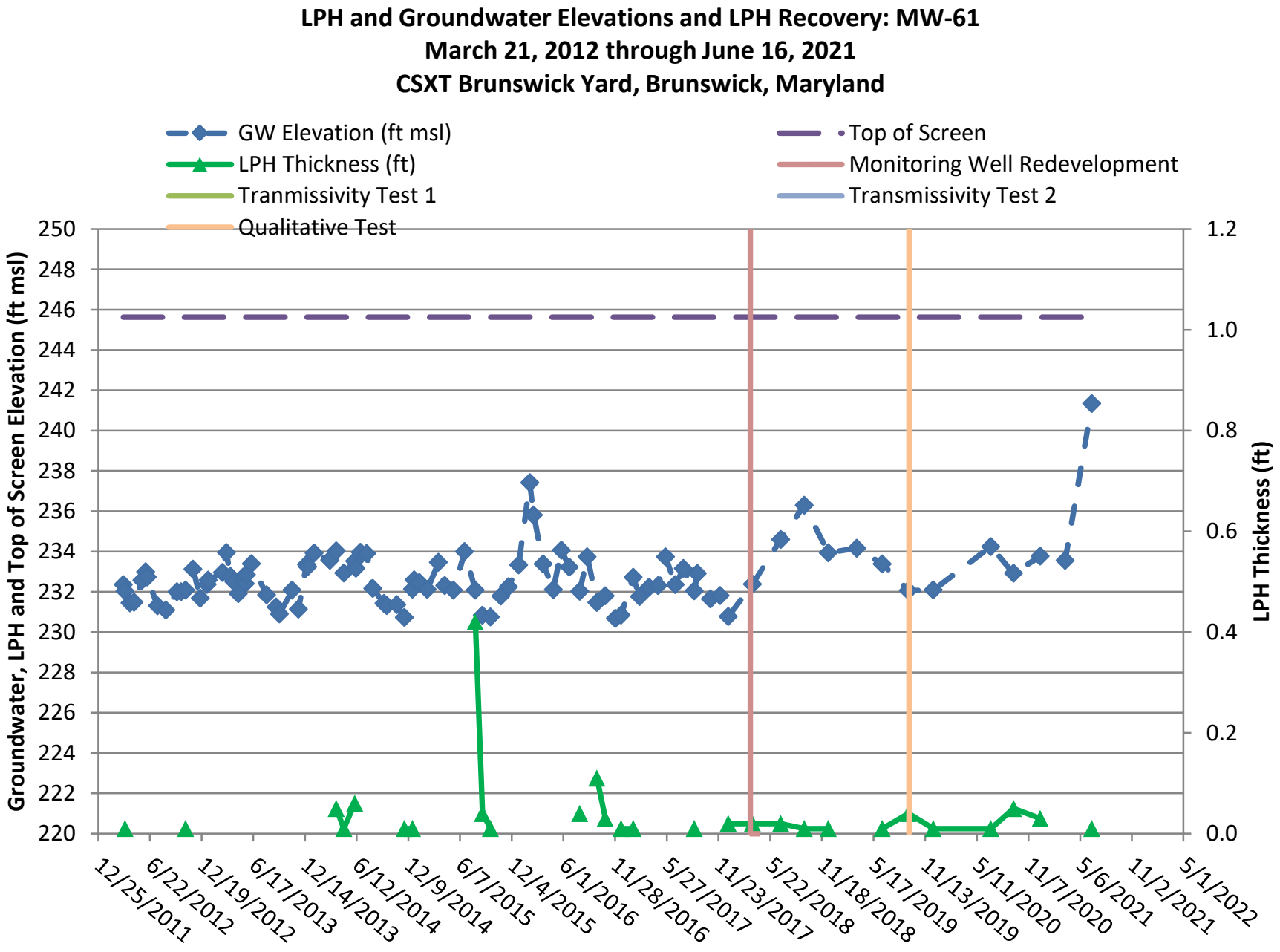

LPH and Groundwater Elevations and LPH Recovery: MW-58
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Transmissivity Testing
Top of Screen
Monitoring Well Redevelopment
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

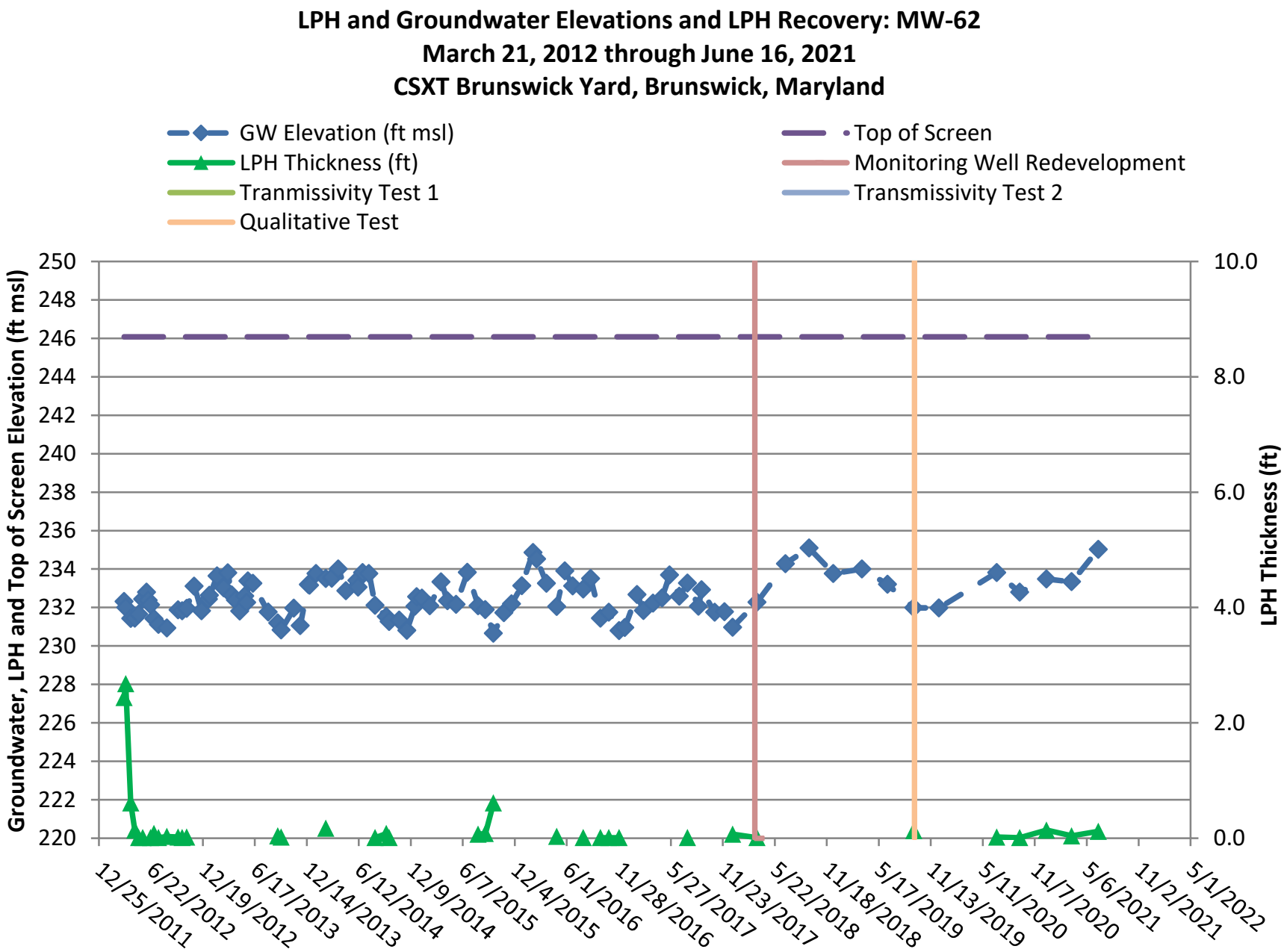
LPH and Groundwater Elevations and LPH Recovery: MW-59
March 21, 2012 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland

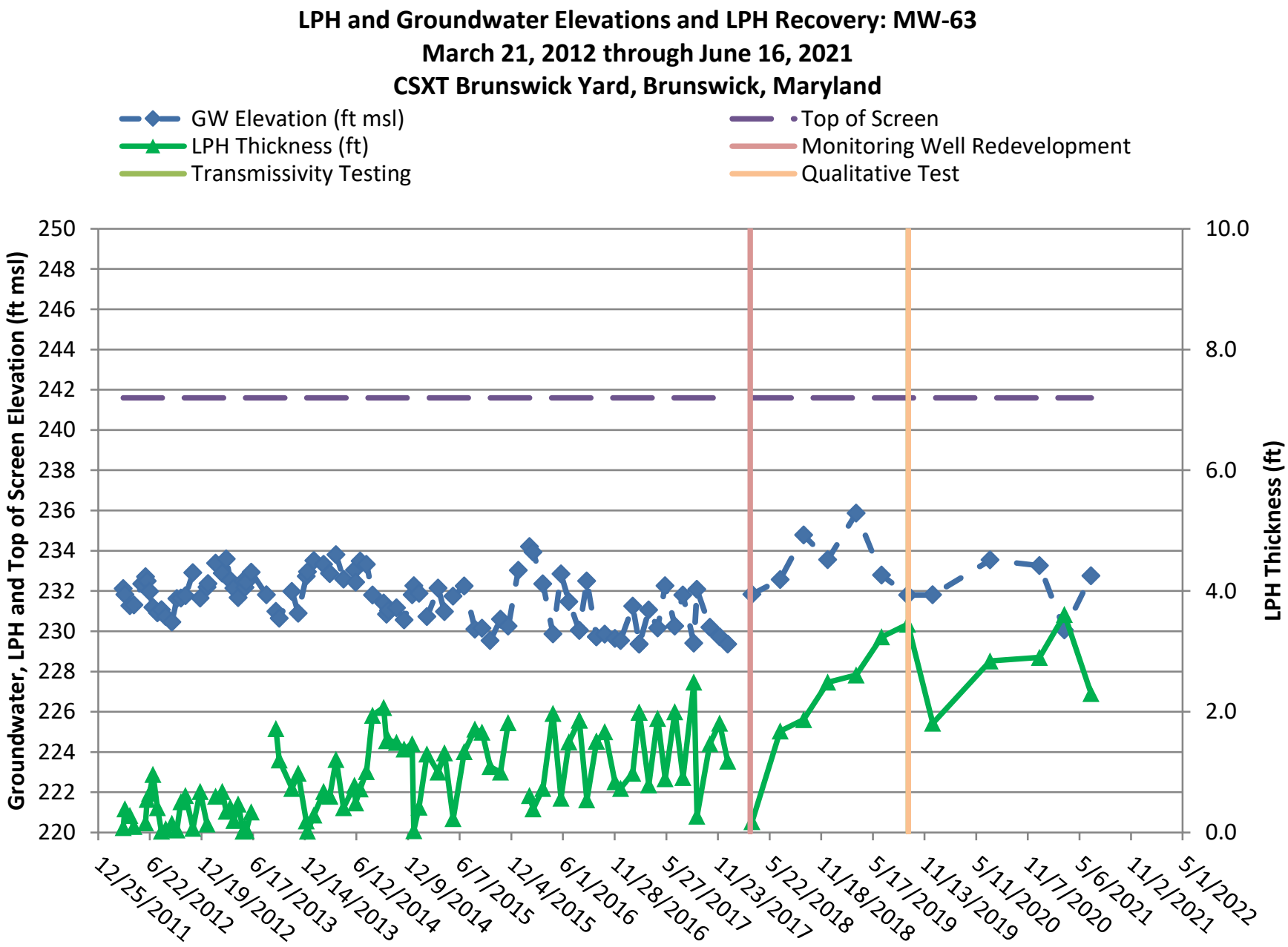


LPH and Groundwater Elevations and LPH Recovery: MW-60
March 21, 2012 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland

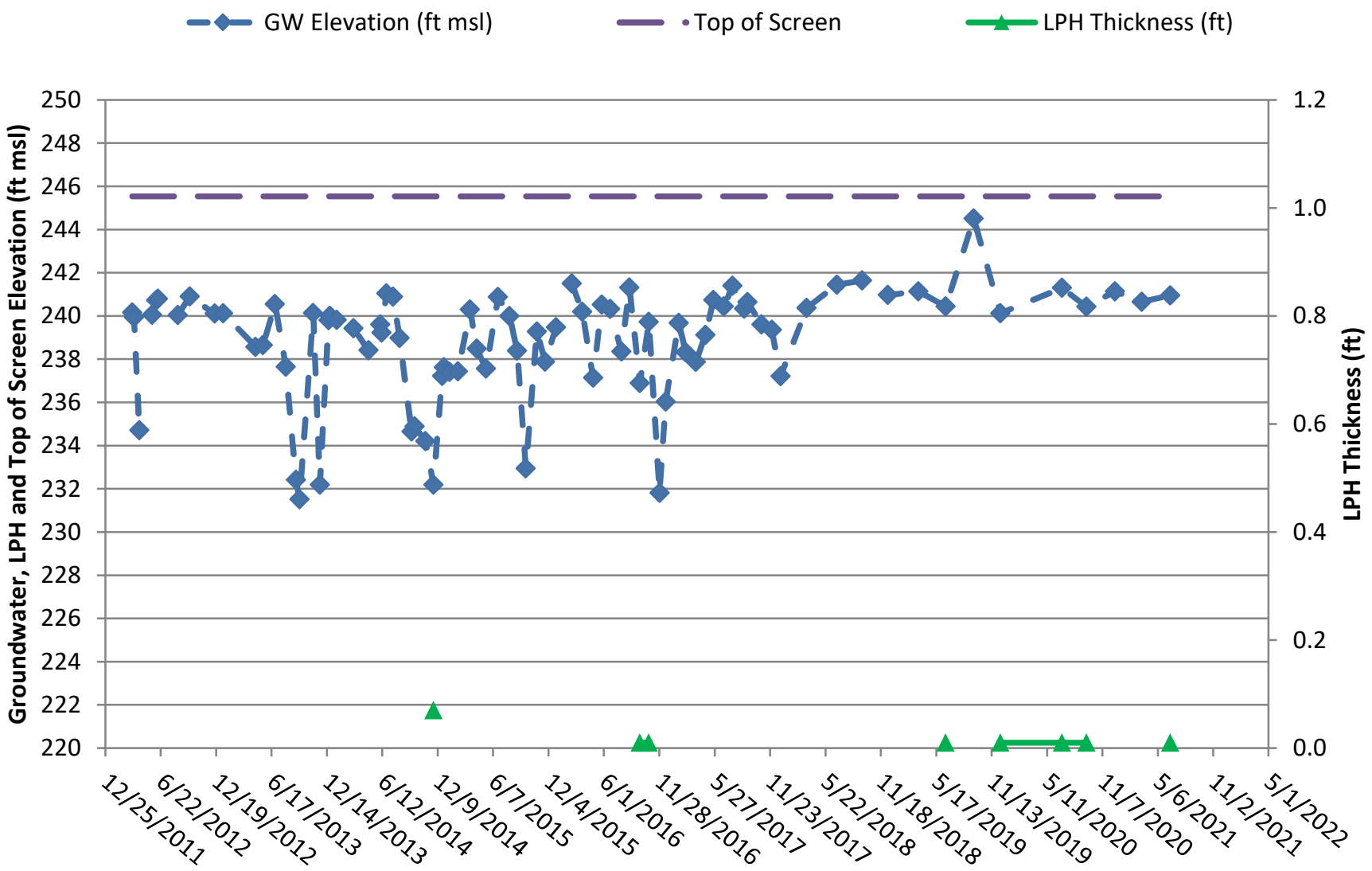



LPH and Groundwater Elevations and LPH Recovery: MW-61
March 21, 2012 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
Top of Screen
LPH Thickness (ft)
Monitoring Well Redevelopment
Tranmissivity Test 1
Transmissivity Test 2
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
1.2
1.0
0.8
0.6
0.4
0.2
0.0
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

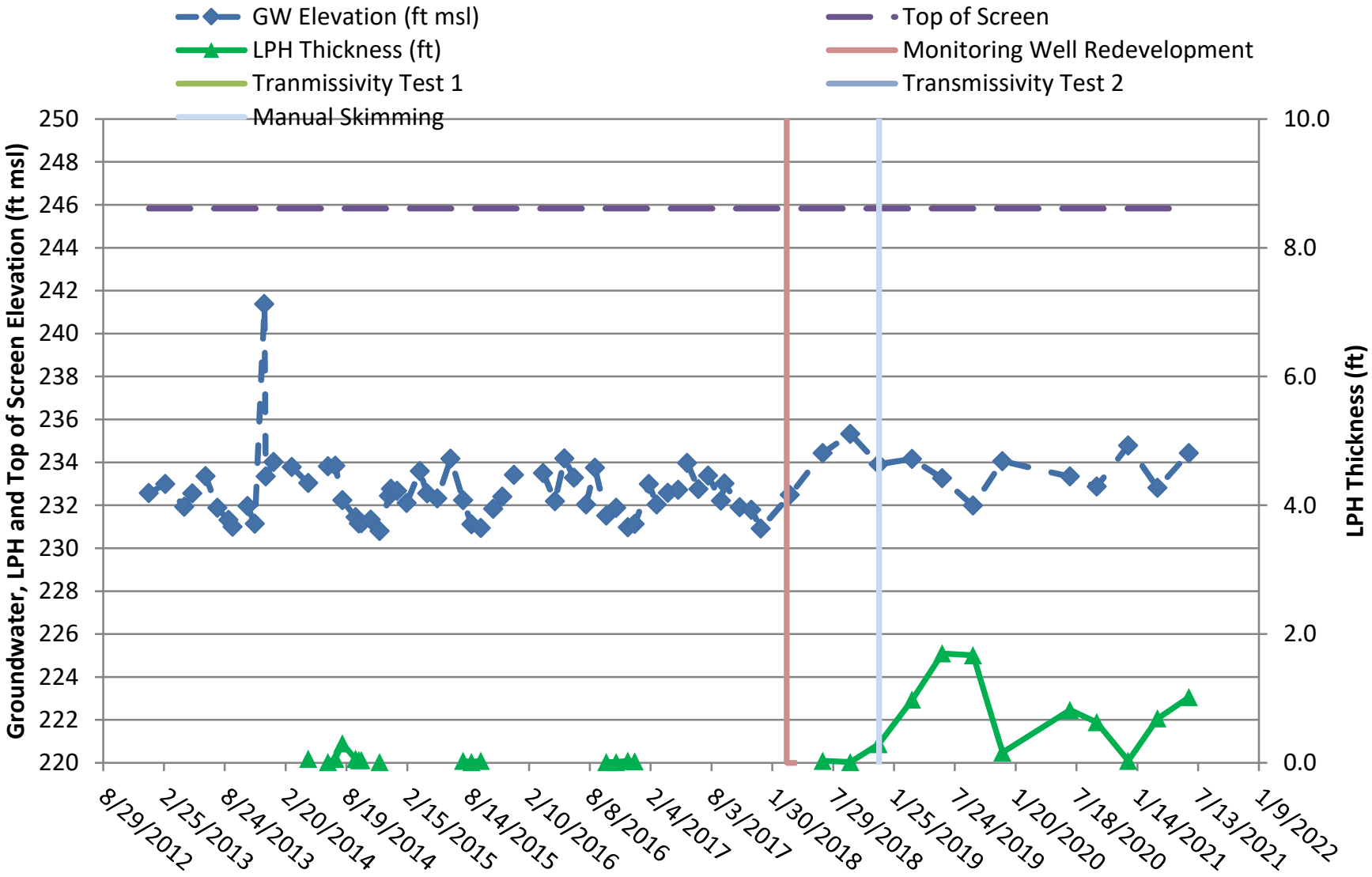

LPH and Groundwater Elevations and LPH Recovery: MW-62
March 21, 2012 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
Top of Screen
LPH Thickness (ft)
Monitoring Well Redevelopment
Tranmissivity Test 1
Transmissivity Test 2
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

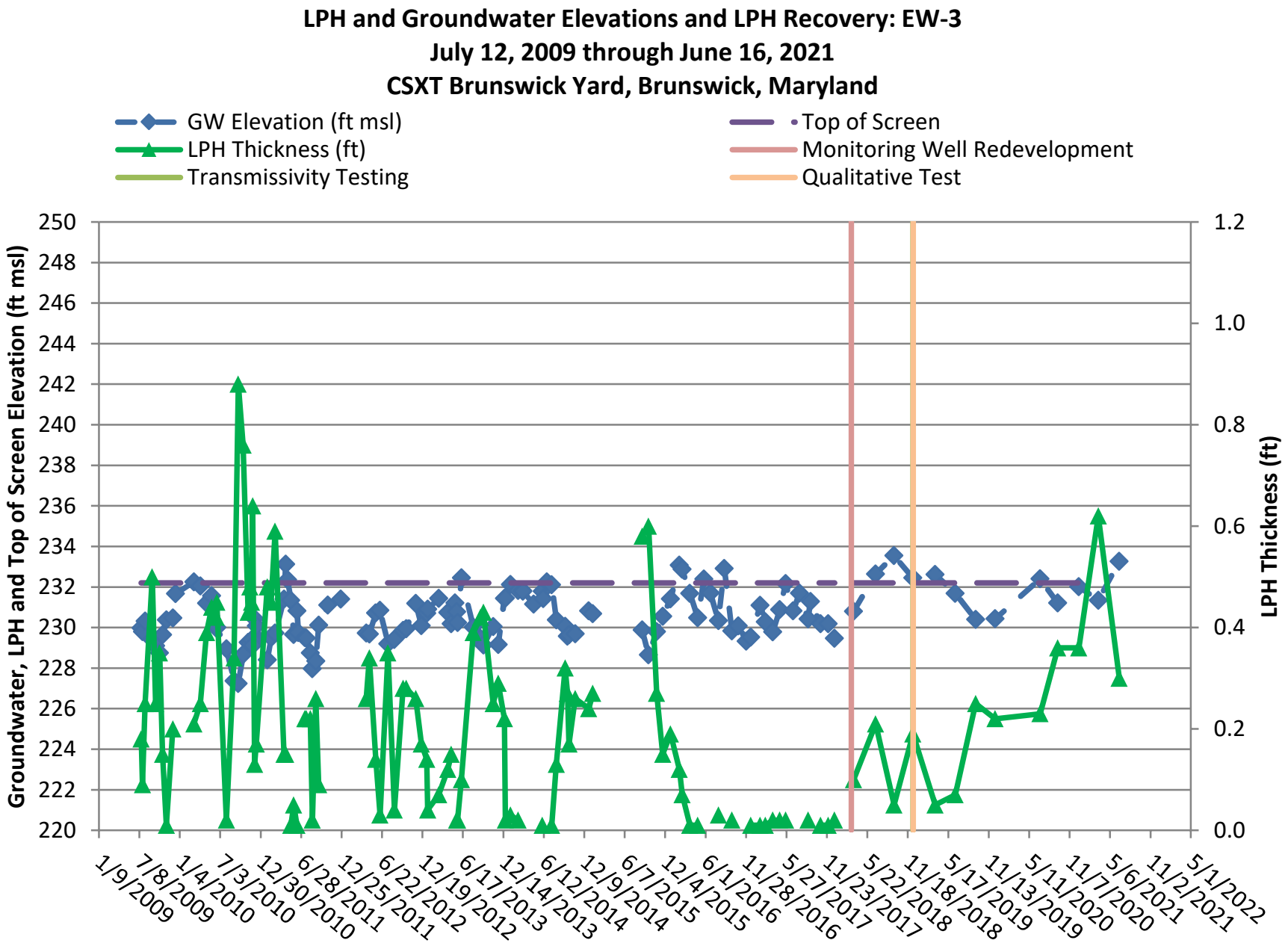

LPH and Groundwater Elevations and LPH Recovery: MW-63
March 21, 2012 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
Top of Screen
LPH Thickness (ft)
Monitoring Well Redevelopment
Transmissivity Testing
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
10.0
8.0
6.0
4.0
2.0
0.0
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

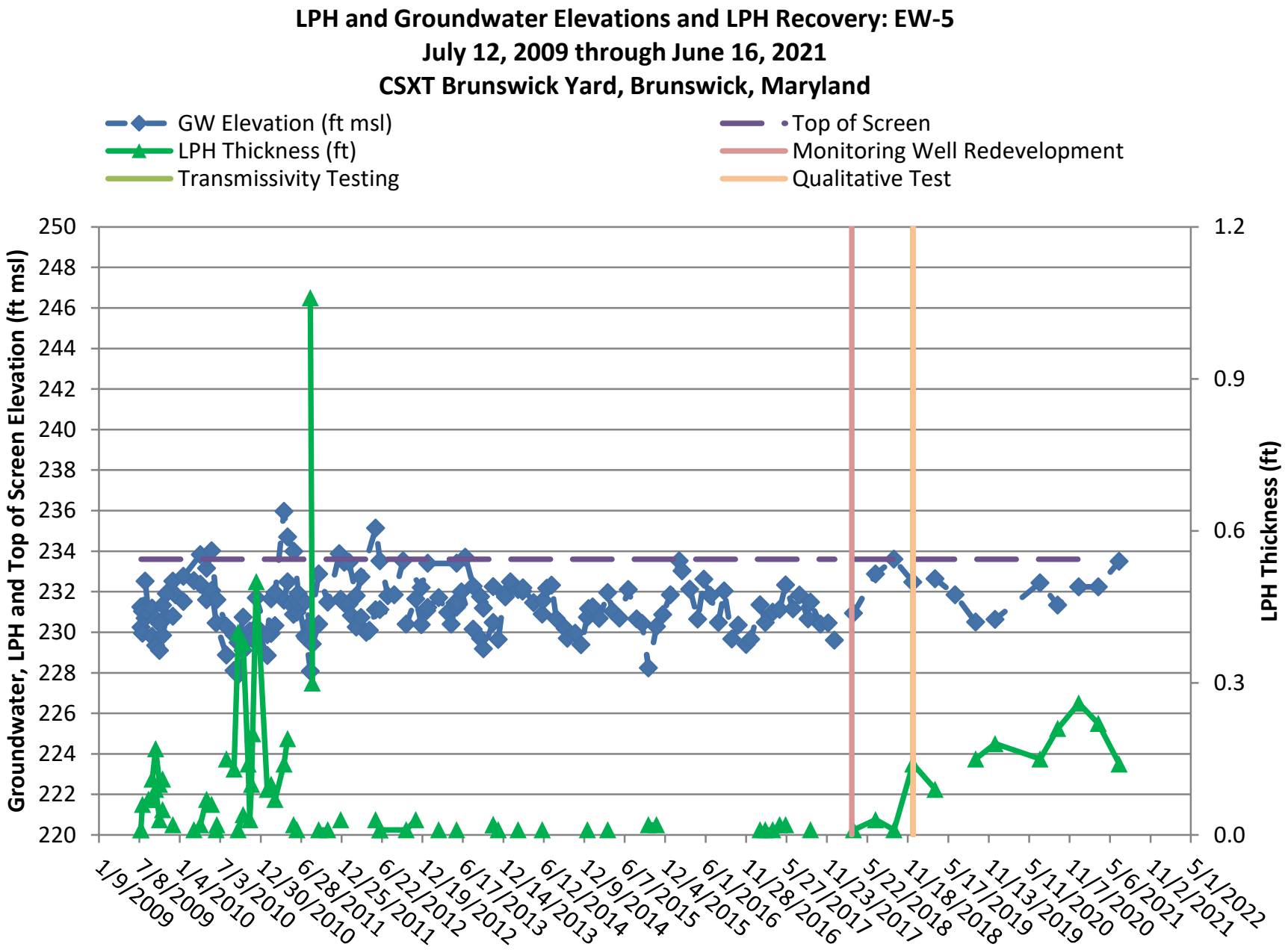
LPH and Groundwater Elevations and LPH Recovery: MW-65
March 21, 2012 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland



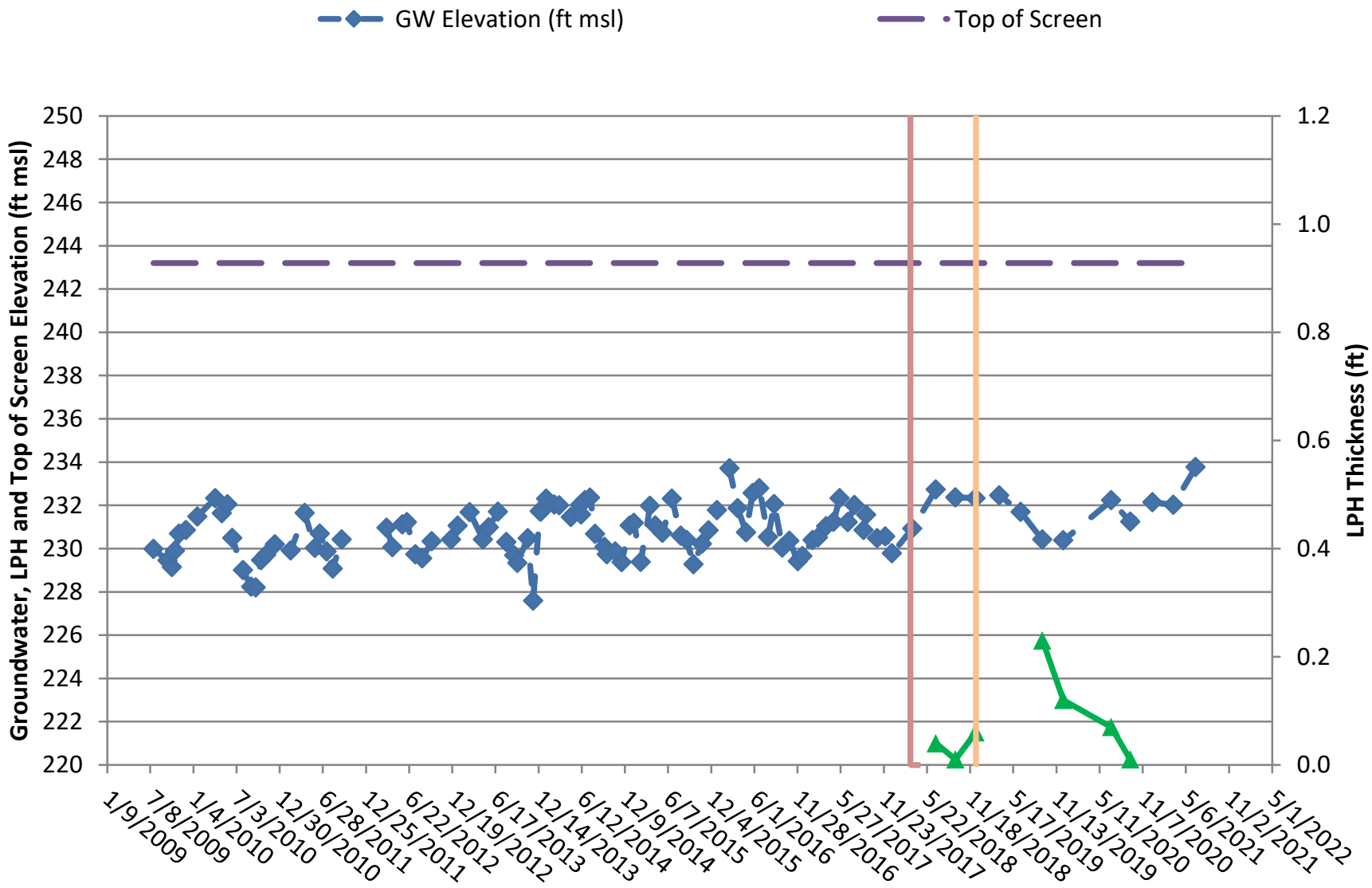
LPH and Groundwater Elevations and LPH Recovery: MW-67
Janurary 11, 2013 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland




LPH and Groundwater Elevations and LPH Recovery: EW-3
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Transmissivity Testing
Top of Screen
Monitoring Well Redevelopment
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

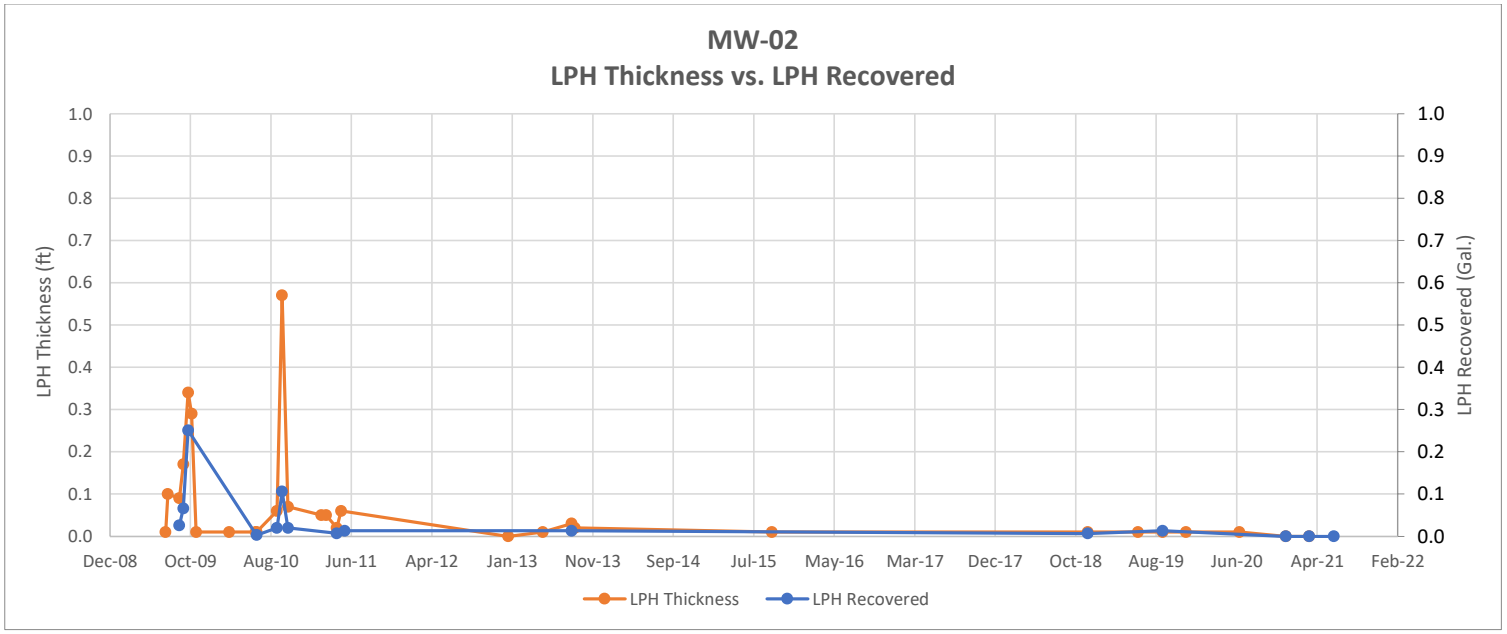

LPH and Groundwater Elevations and LPH Recovery: EW-5
July 12, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland
GW Elevation (ft msl)
LPH Thickness (ft)
Transmissivity Testing
Top of Screen
Monitoring Well Redevelopment
Qualitative Test
Groundwater, LPH and Top of Screen Elevation (ft msl)
LPH Thickness (ft)
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
1.2
0.9
0.6
0.3
0.0
1/9/2009
7/8/2009
1/4/2010
7/3/2010
12/30/2010
6/28/2011
12/25/2011
6/22/2012
12/19/2012
6/17/2013
12/14/2013
6/12/2014
12/9/2014
6/7/2015
12/4/2015
6/1/2016
11/28/2016
5/27/2017
11/23/2017
5/22/2018
11/18/2018
5/17/2019
11/13/2019
5/11/2020
11/7/2020
5/6/2021
11/2/2021
5/1/2022

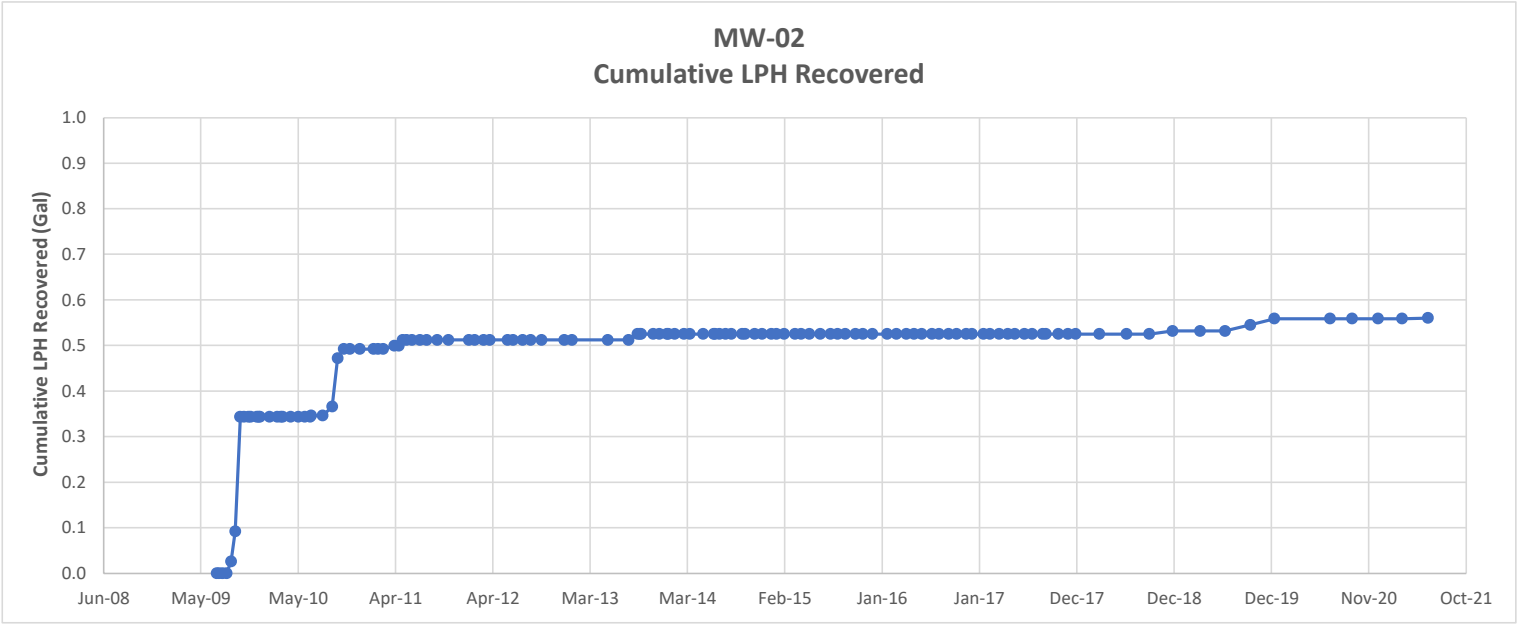
LPH and Groundwater Elevations and LPH Recovery: EW-07
July 22, 2009 through June 16, 2021
CSXT Brunswick Yard, Brunswick, Maryland

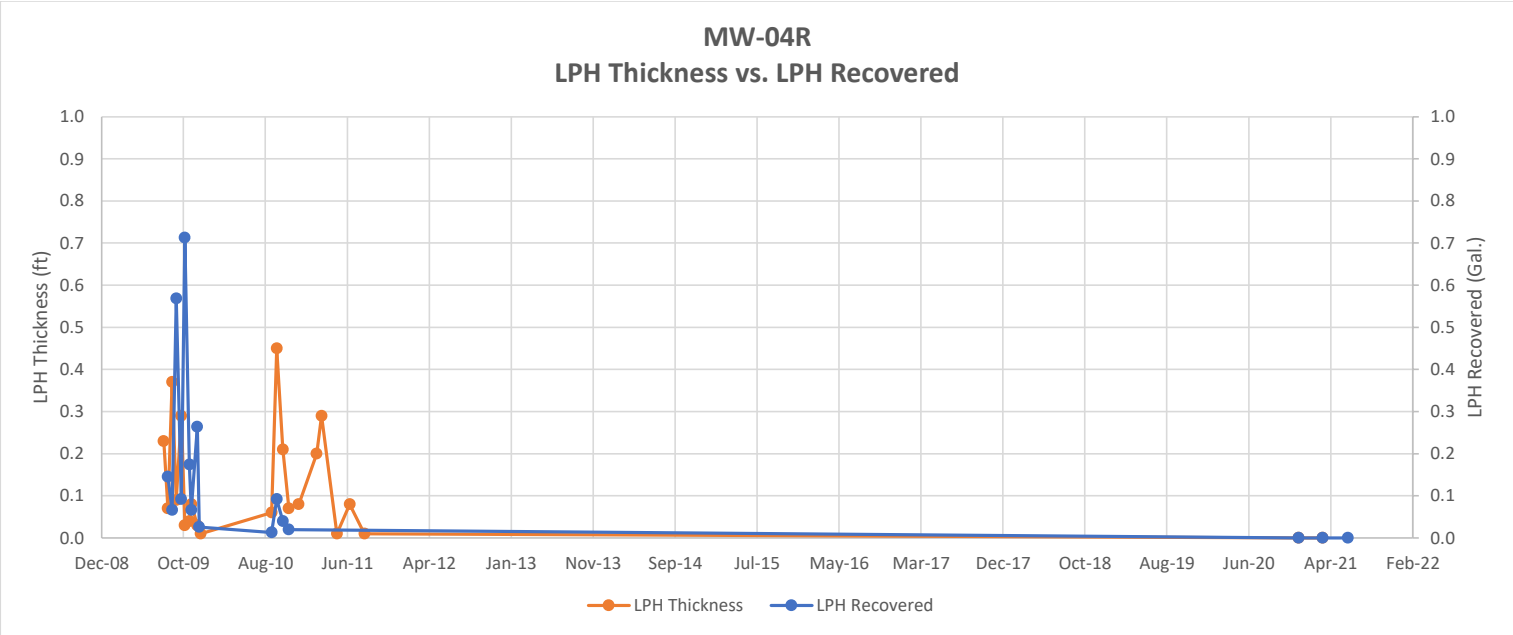


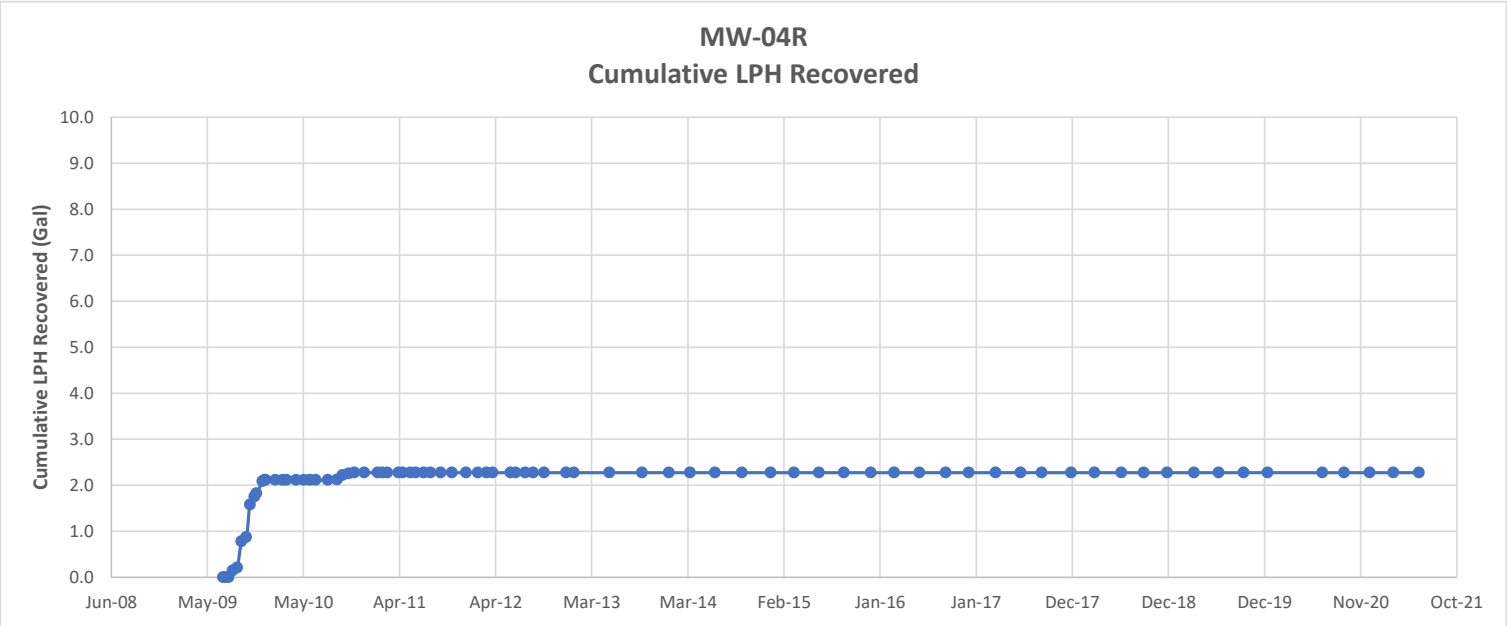
Attachment 2

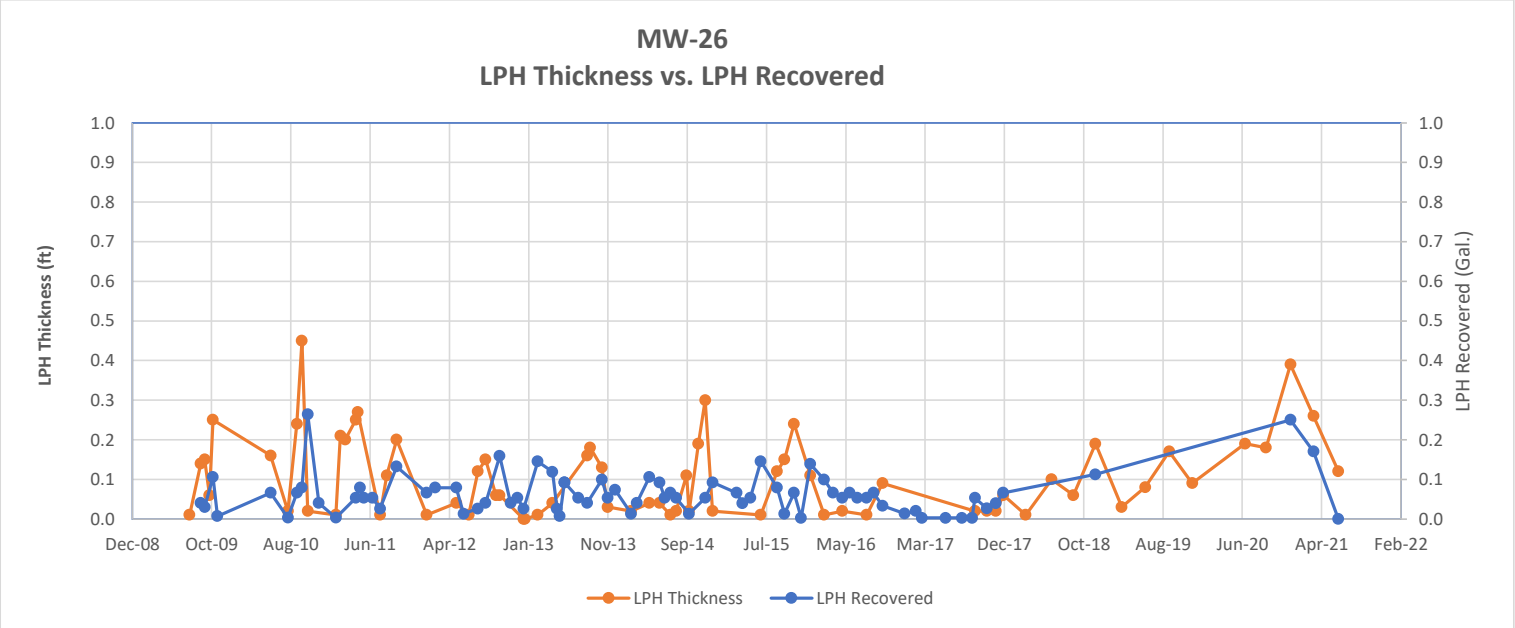
LPH Recovery Data

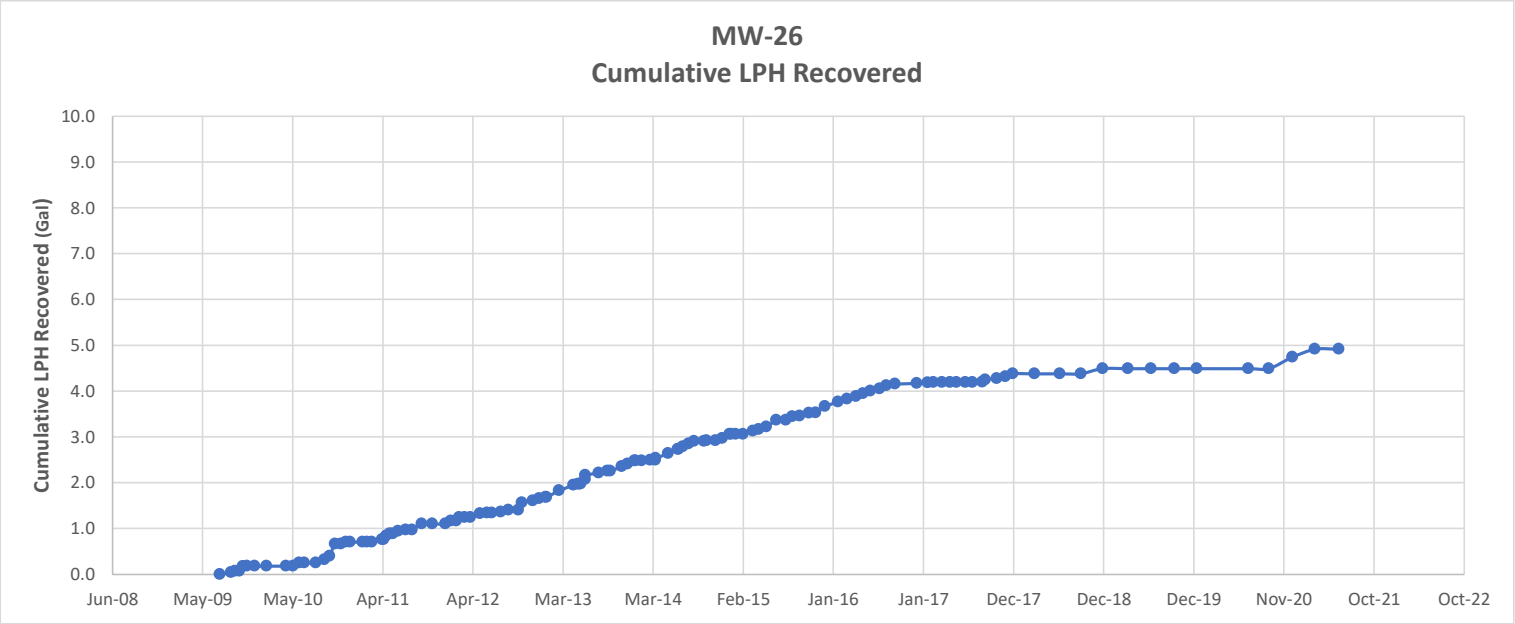

MW-02
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

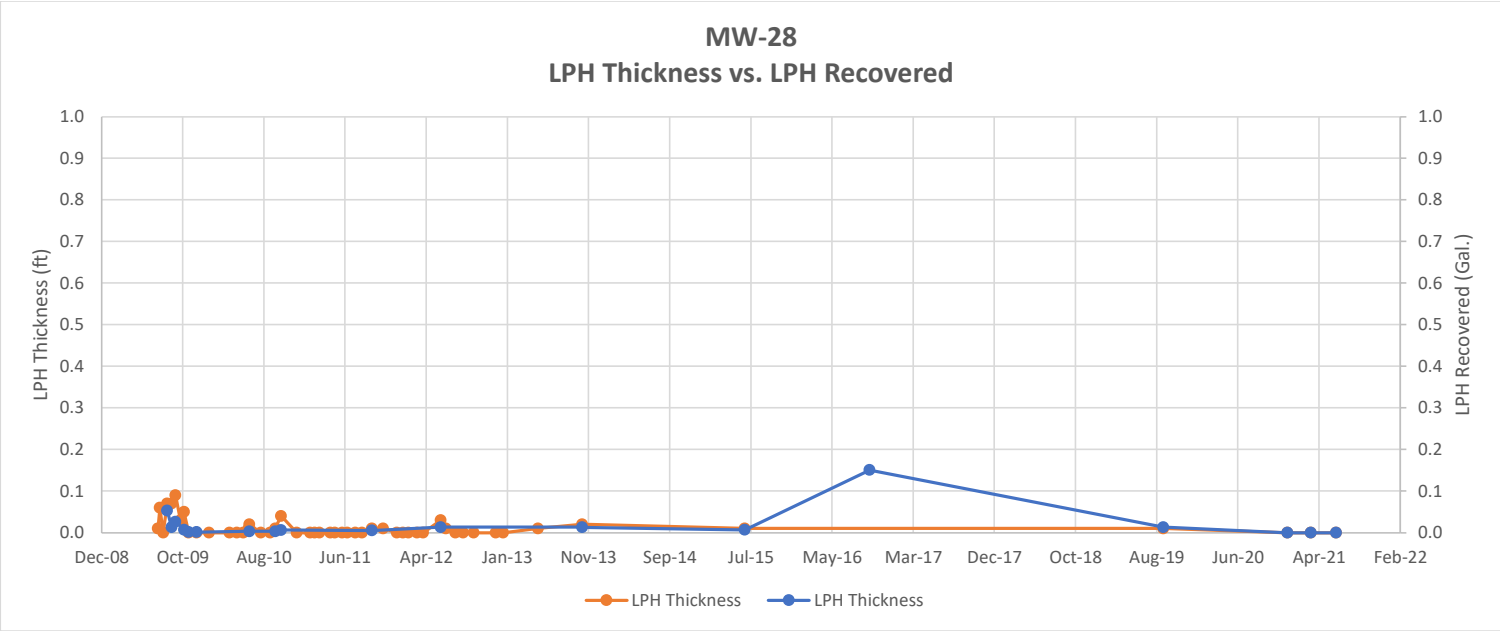

MW-02
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

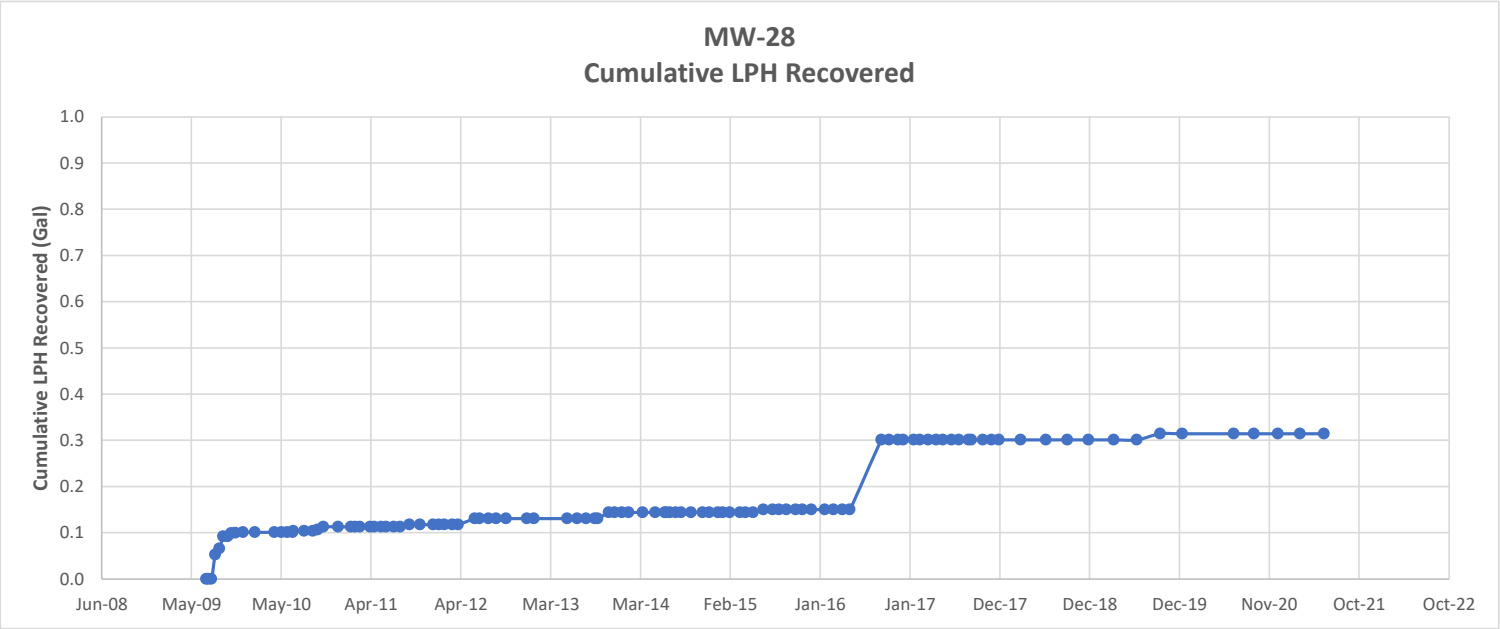

MW-04R
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

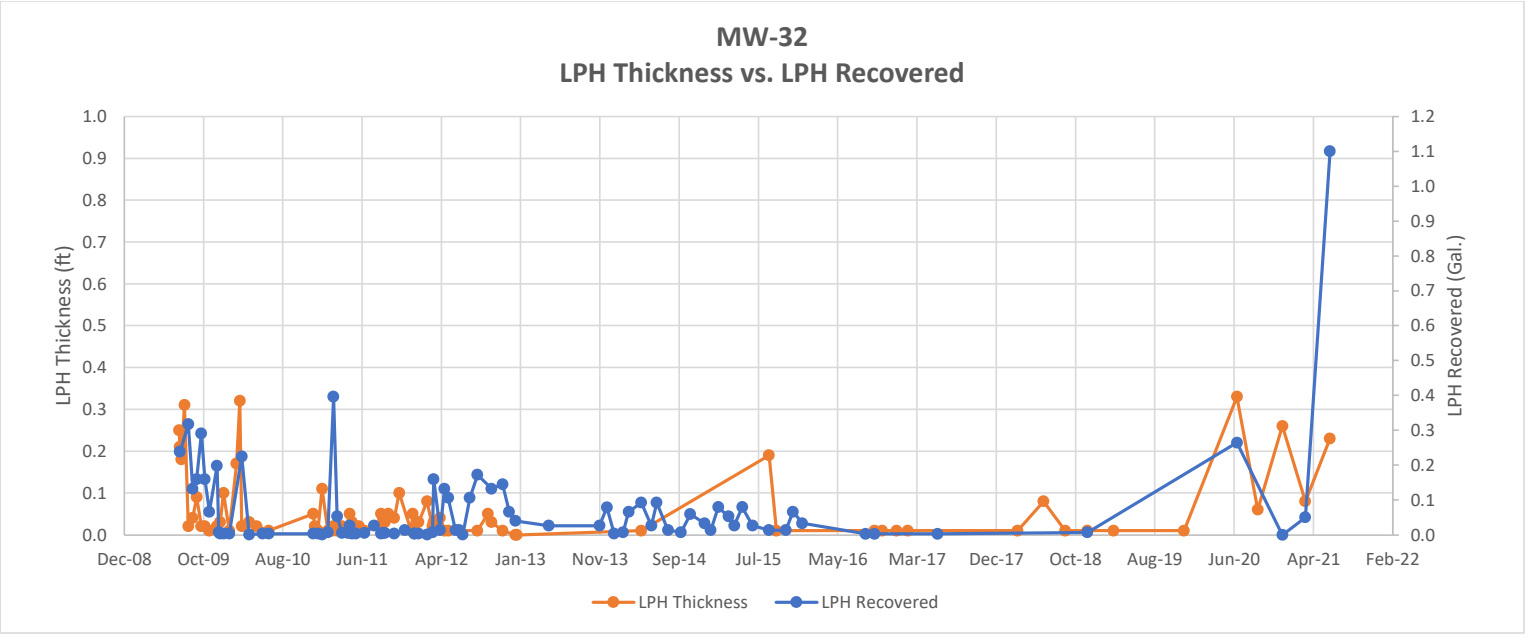

MW-04R
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

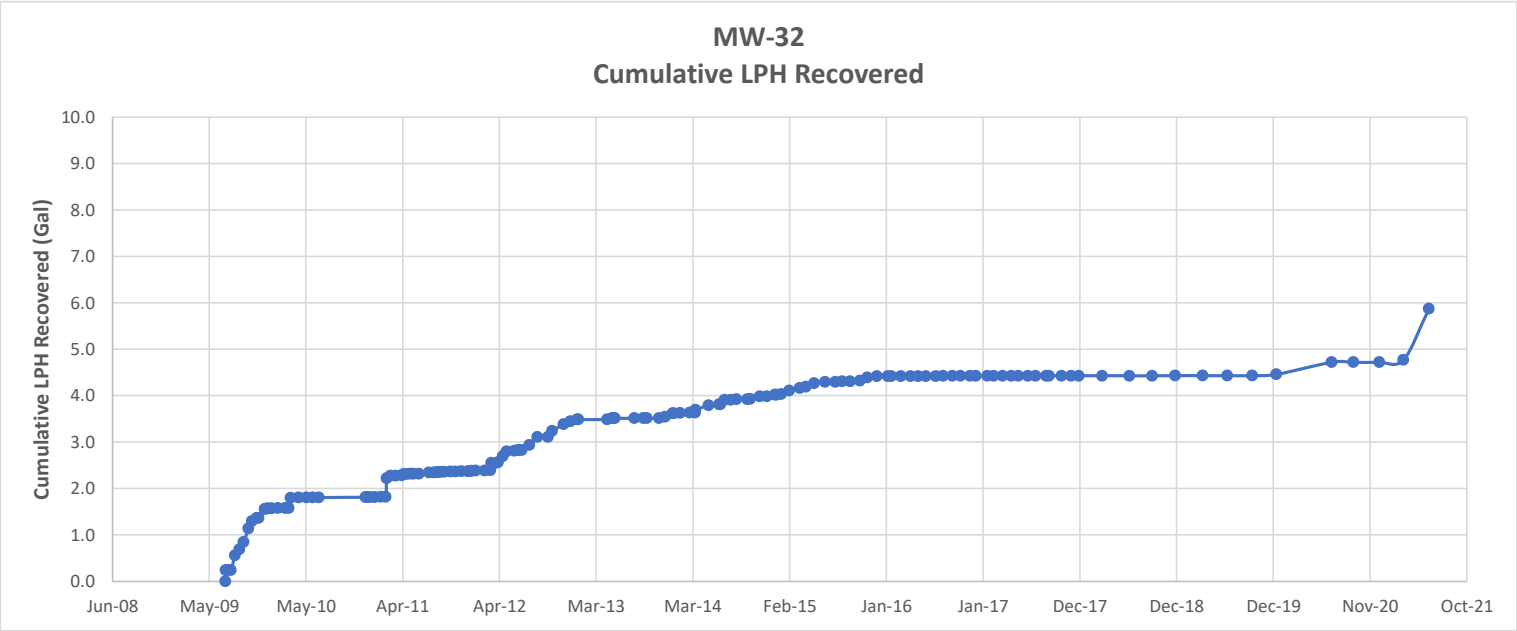

MW-26
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

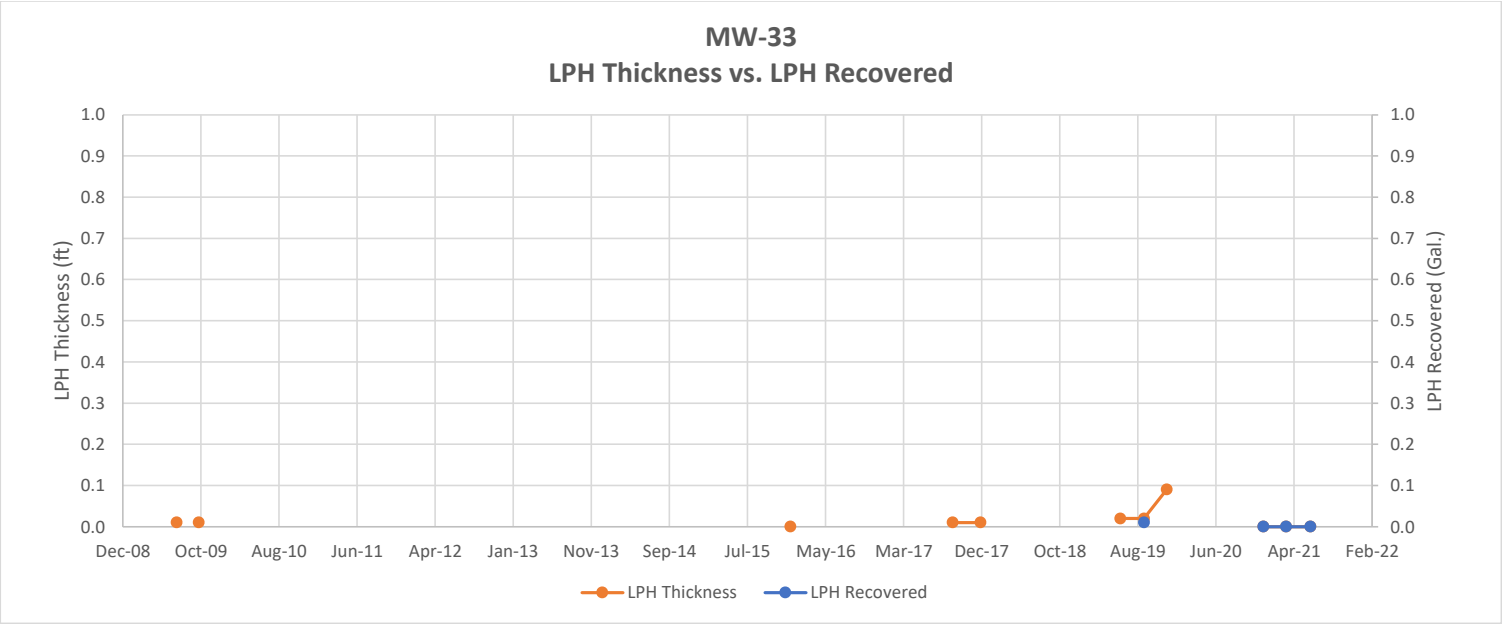

MW-26
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21
Oct-22

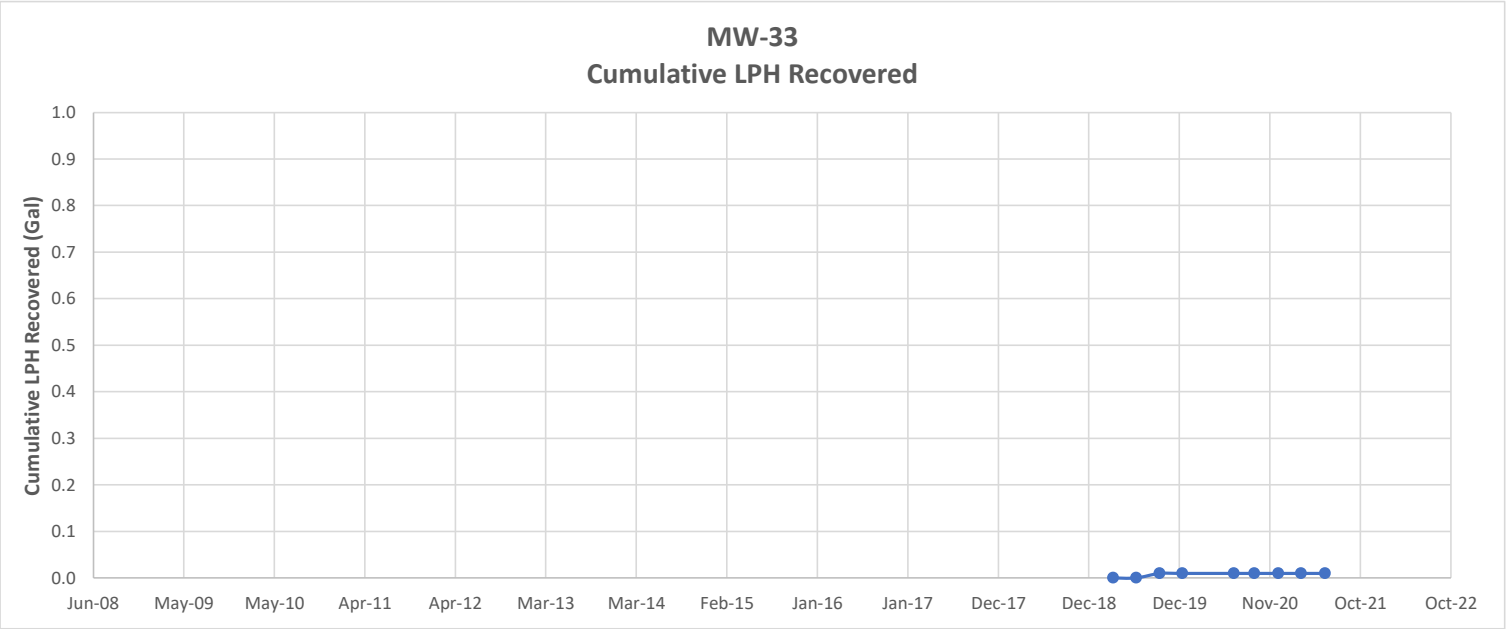

MW-28
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Thickness

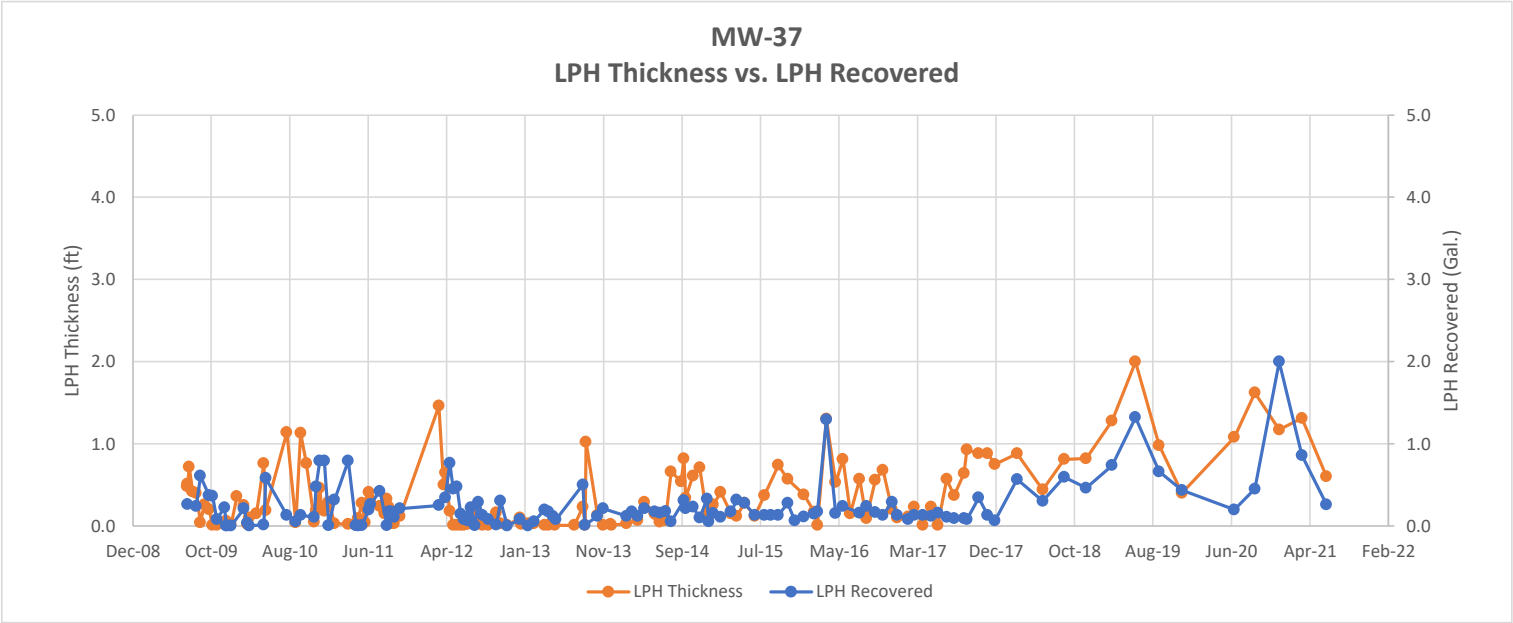

MW-28
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21
Oct-22

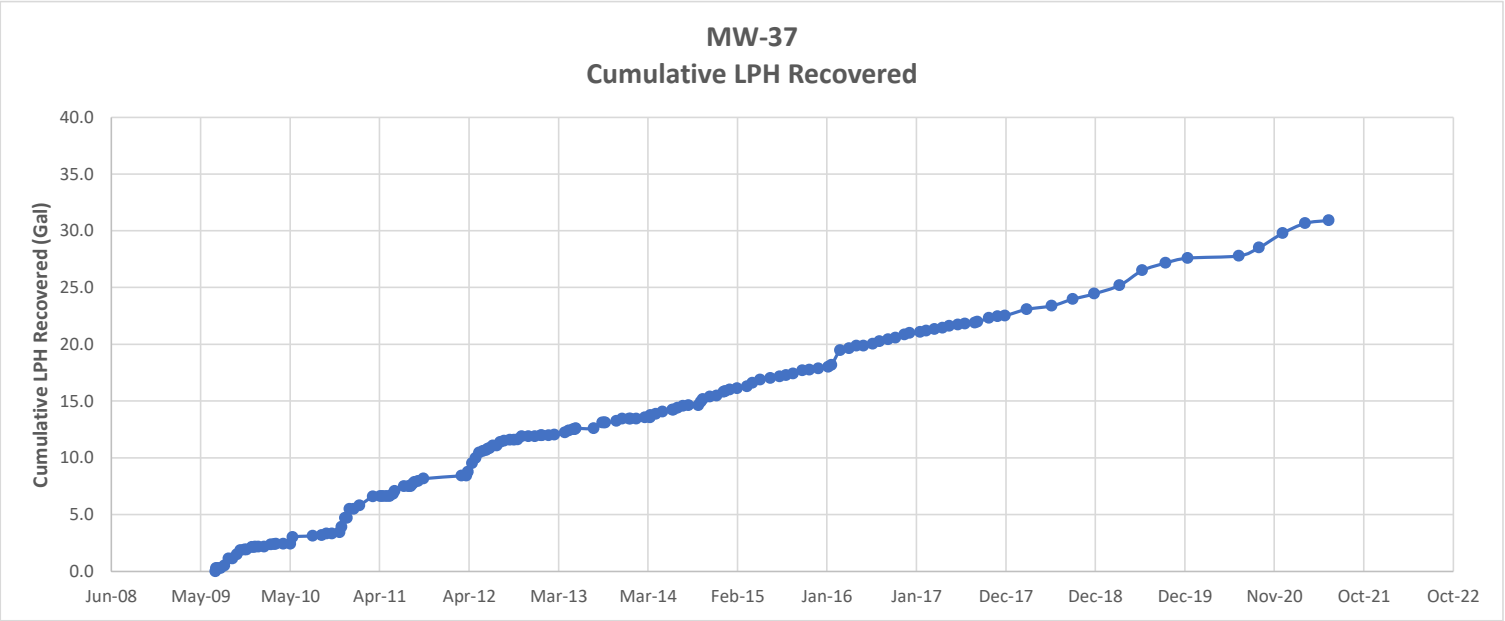

MW-32
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

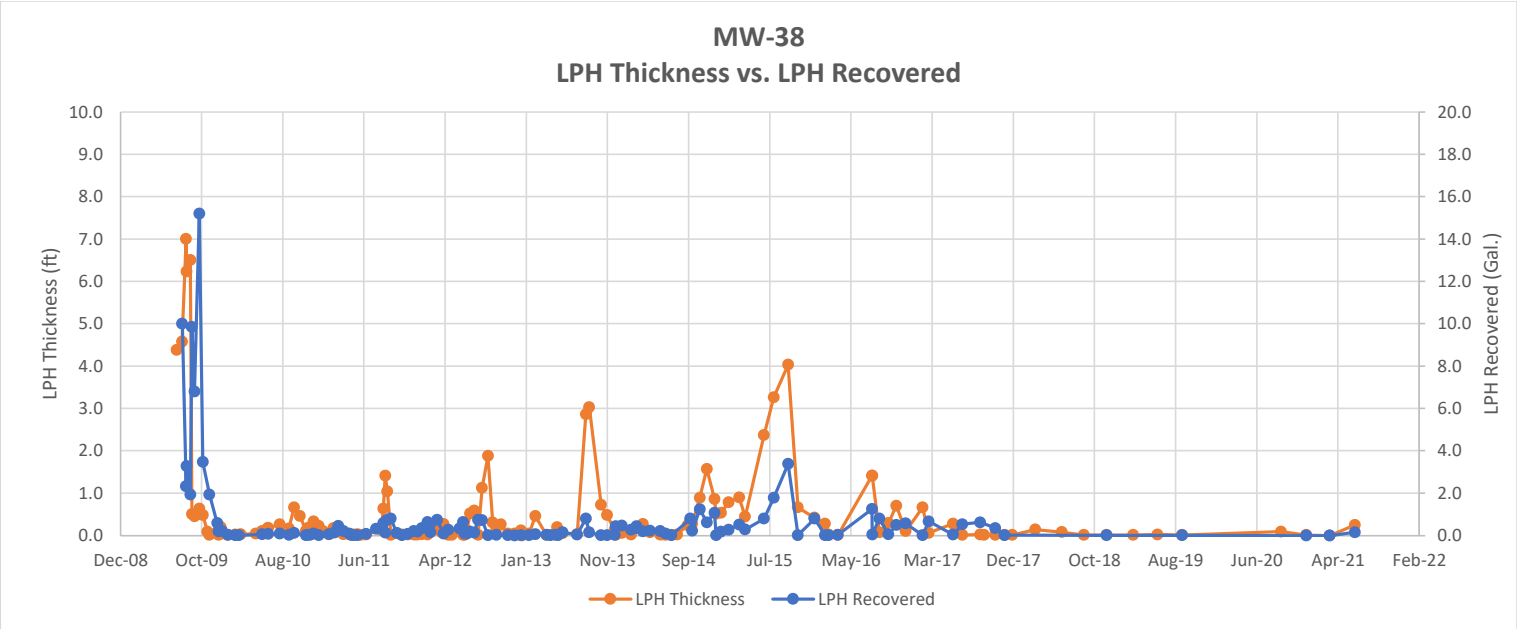

MW-32
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

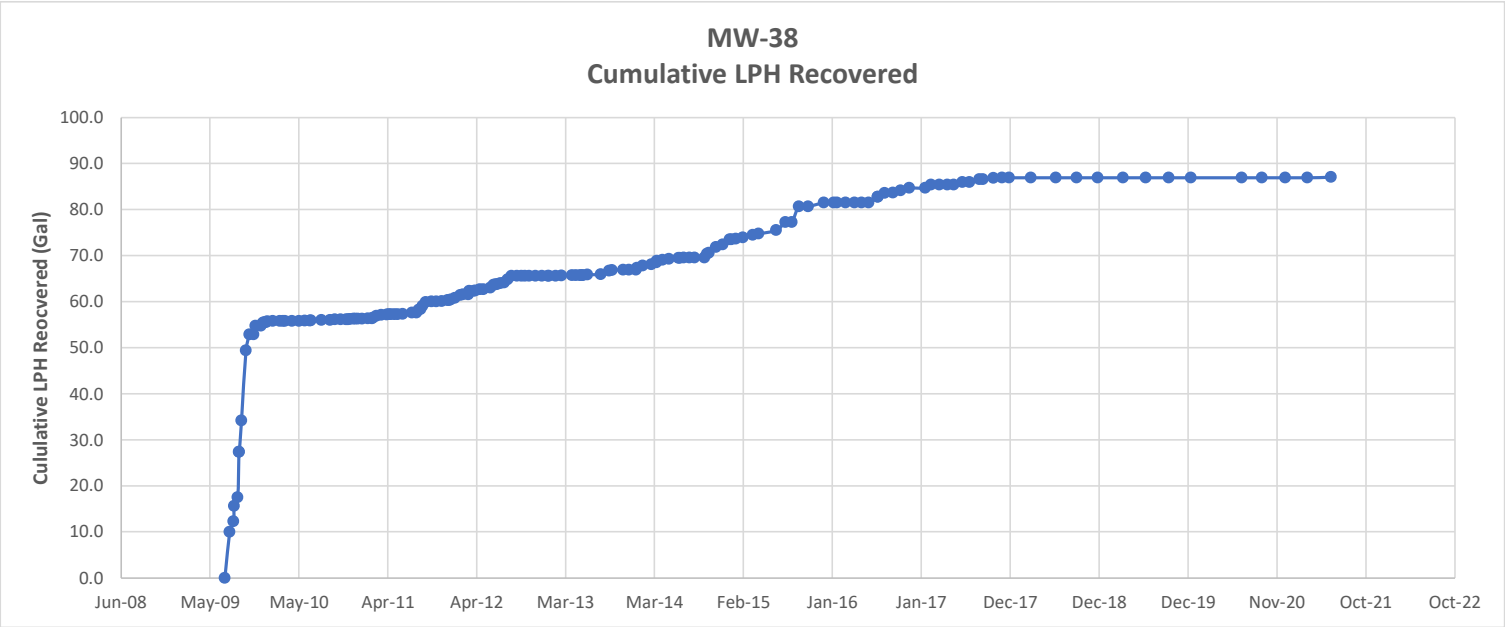

MW-33
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

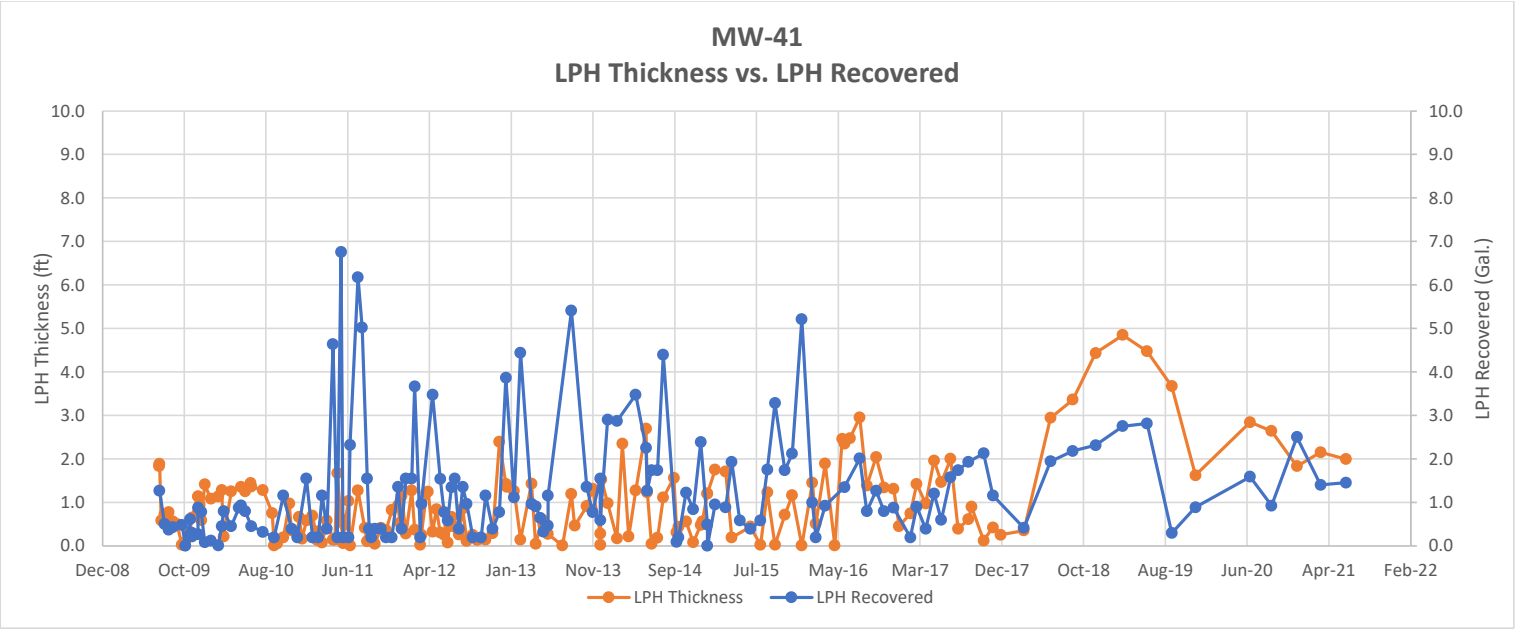

MW-33
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21
Oct-22

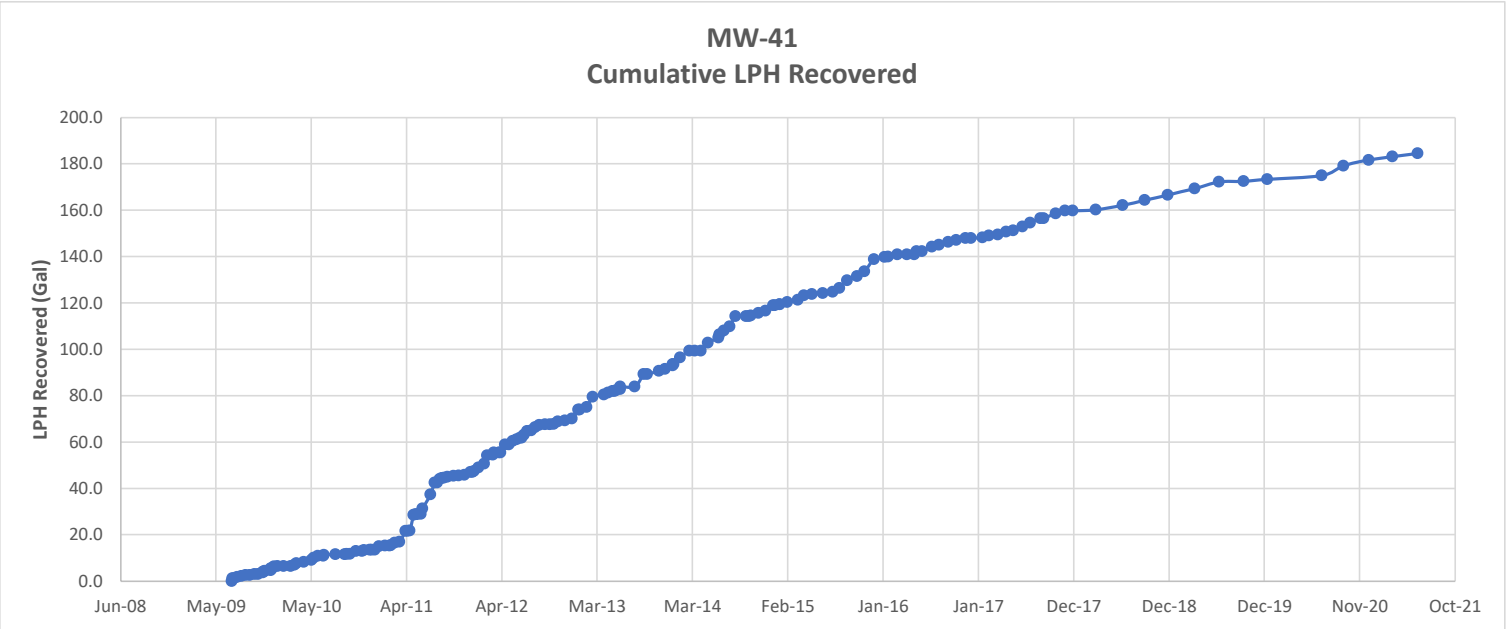

MW-37
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

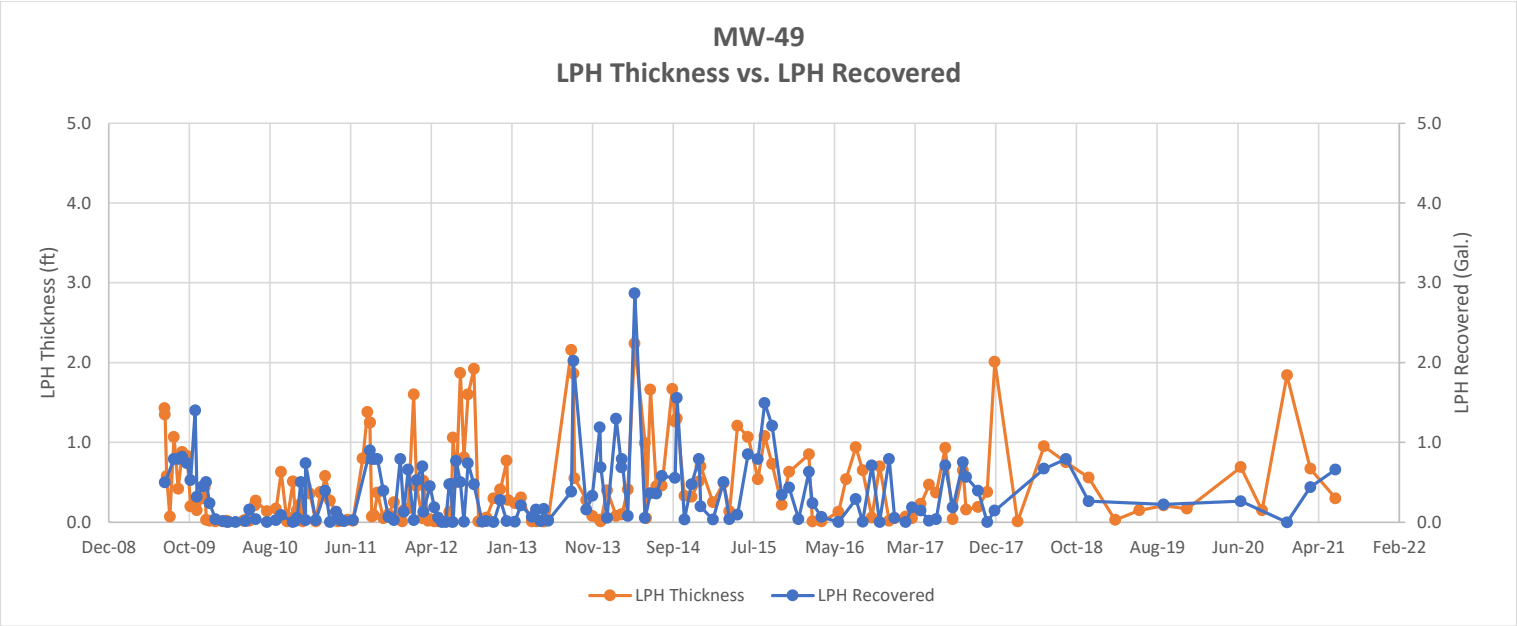

MW-37
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21
Oct-22

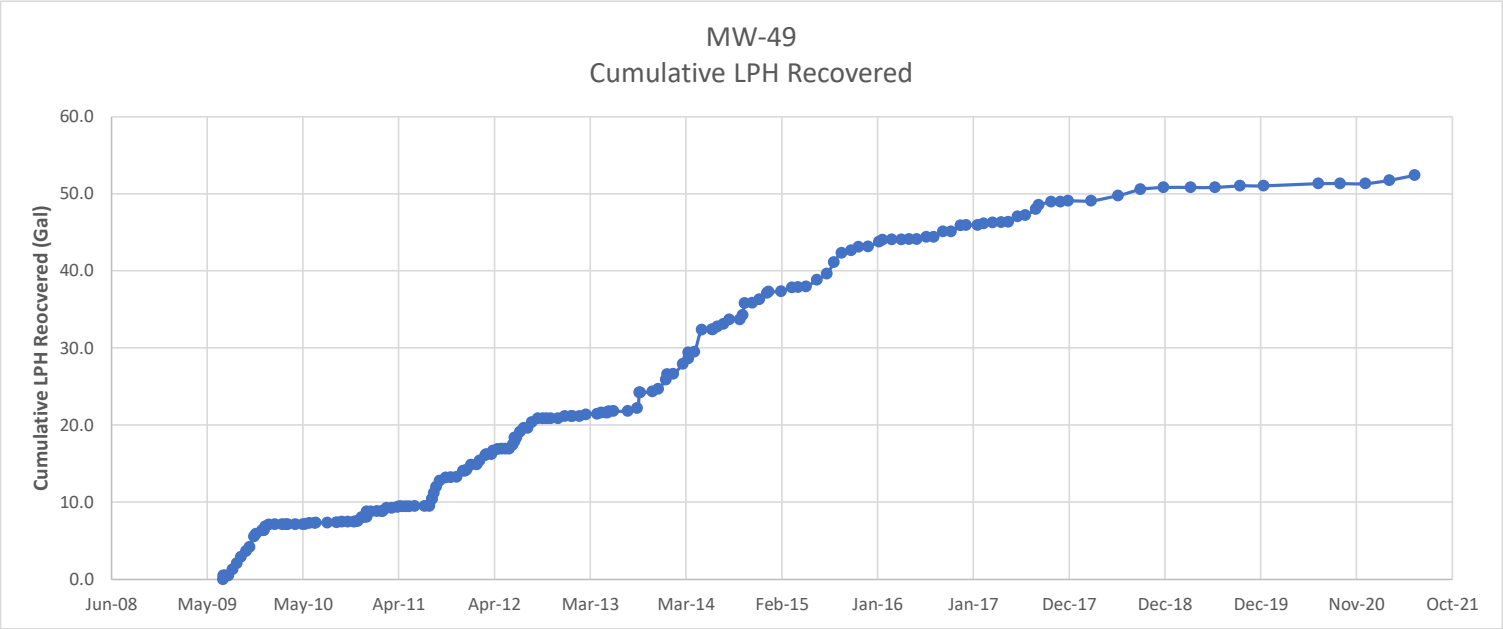

MW-38
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

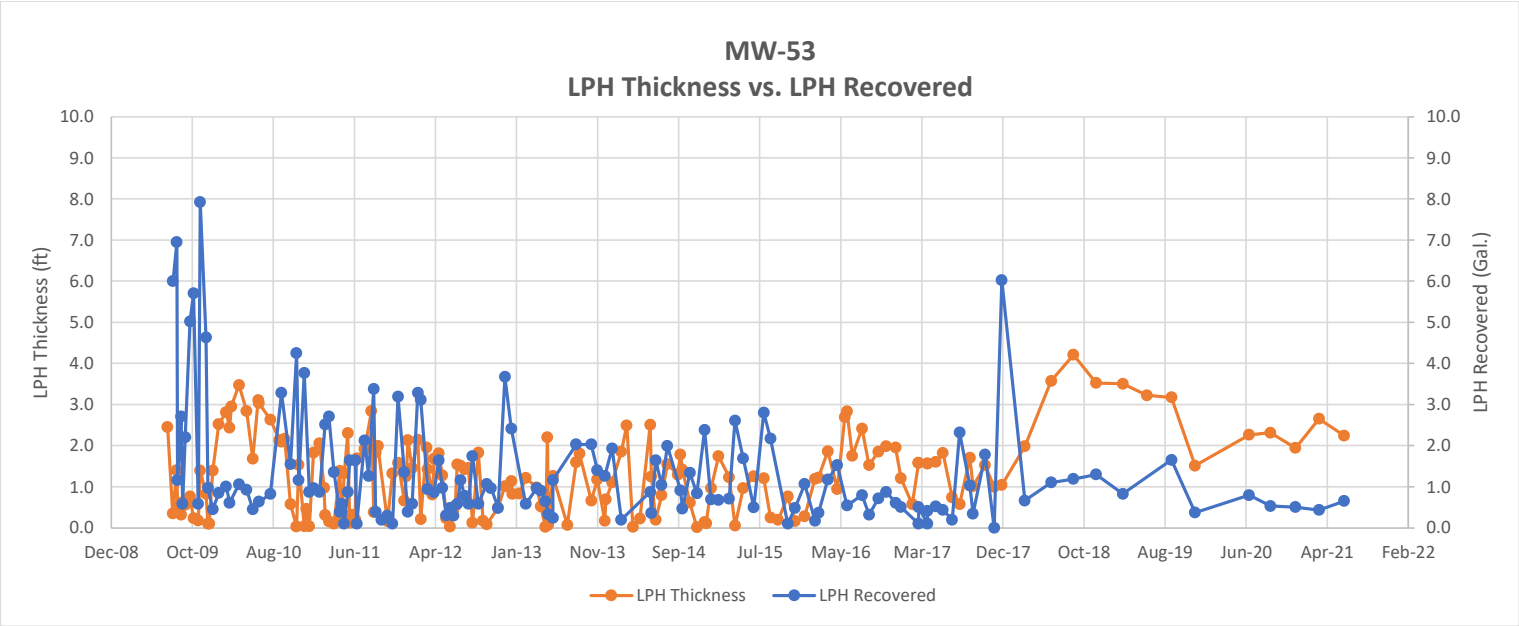

MW-38
Cumulative LPH Recovered
Cululative LPH Reocvered (Gal)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21
Oct-22

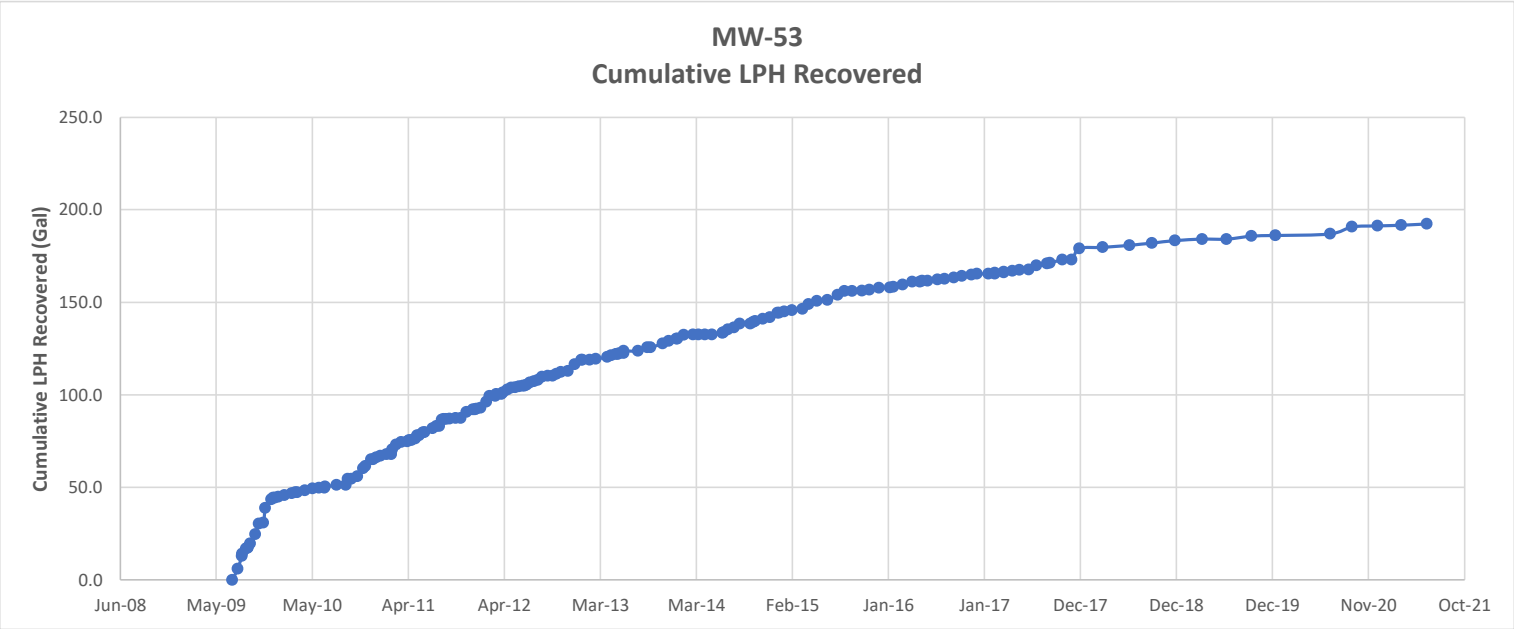

MW-41
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

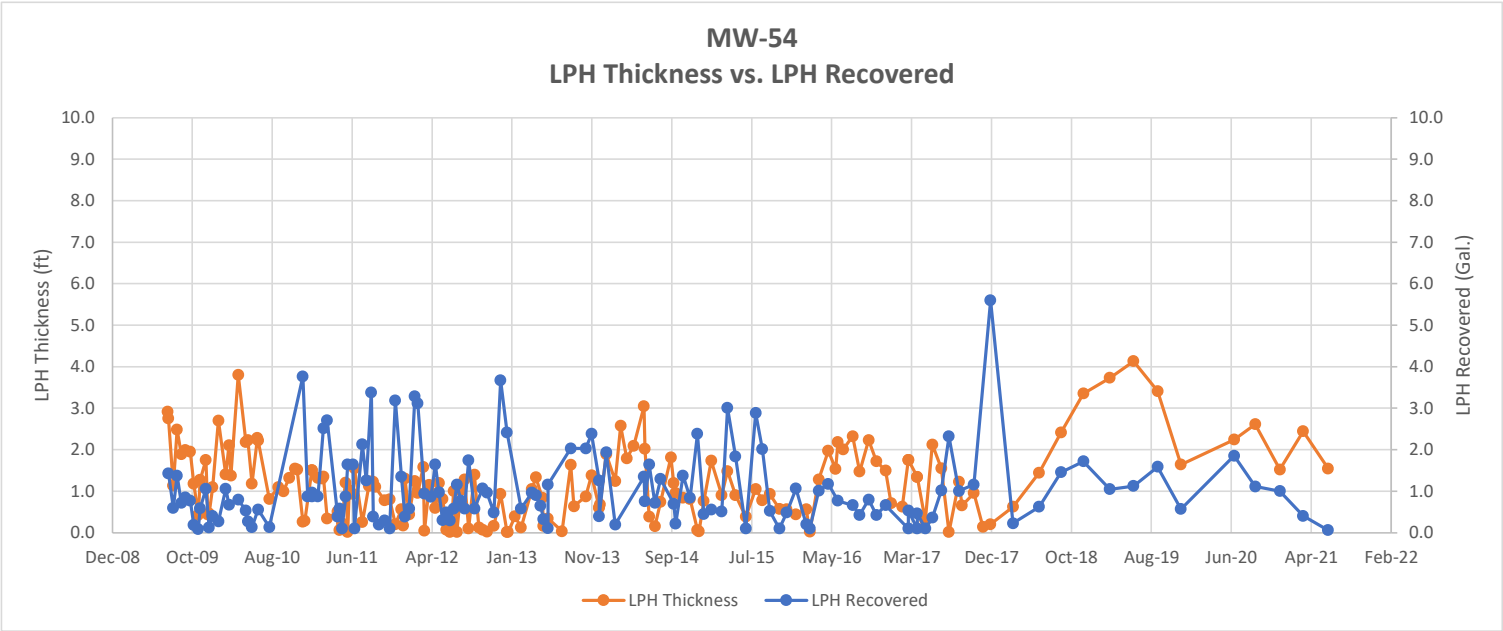

MW-41
Cumulative LPH Recovered
LPH Recovered (Gal)
200.0
180.0
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

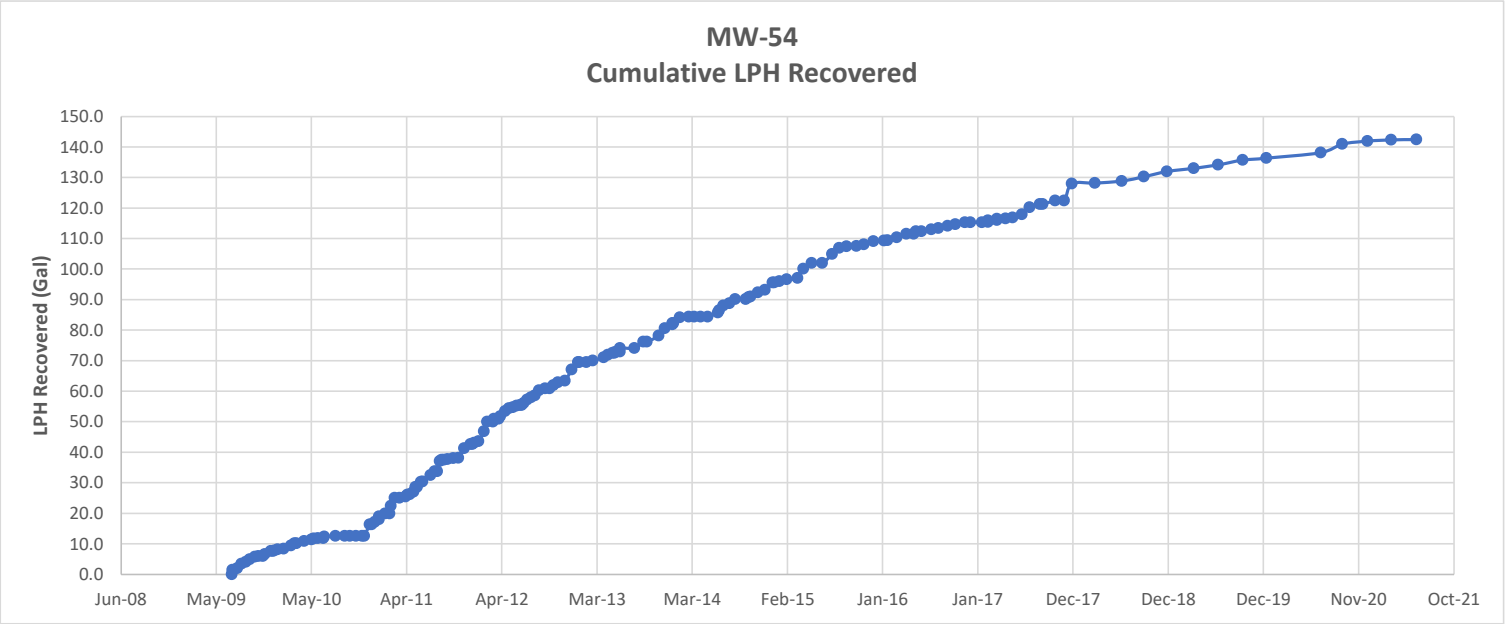

MW-49
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

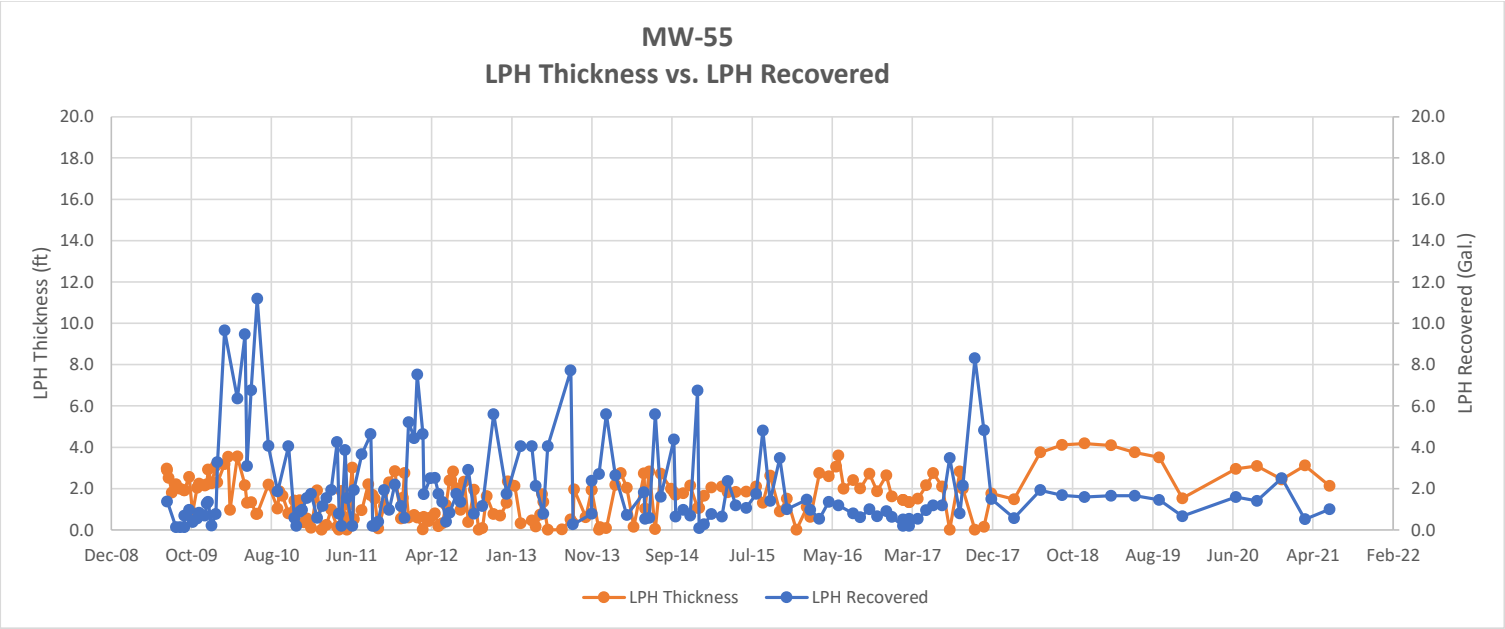

MW-49
Cumulative LPH Recovered
Cumulative LPH Reocvered (Gal)
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

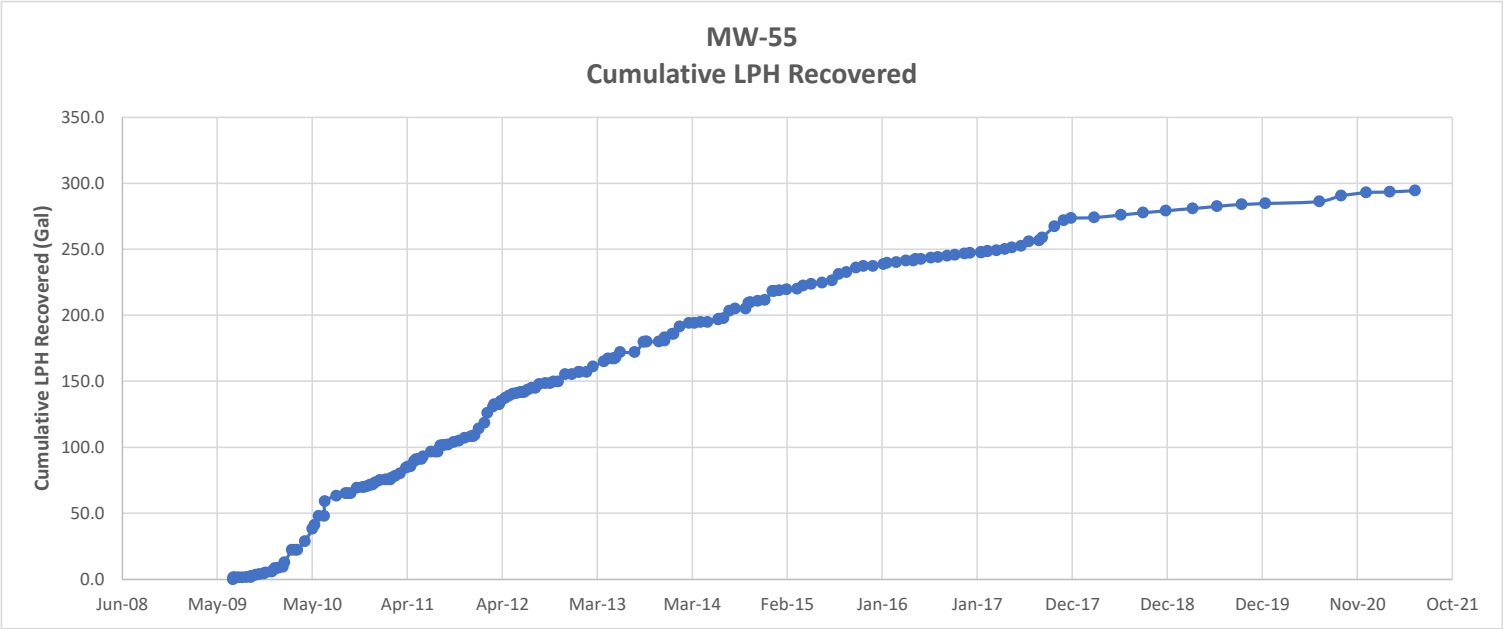

MW-53
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

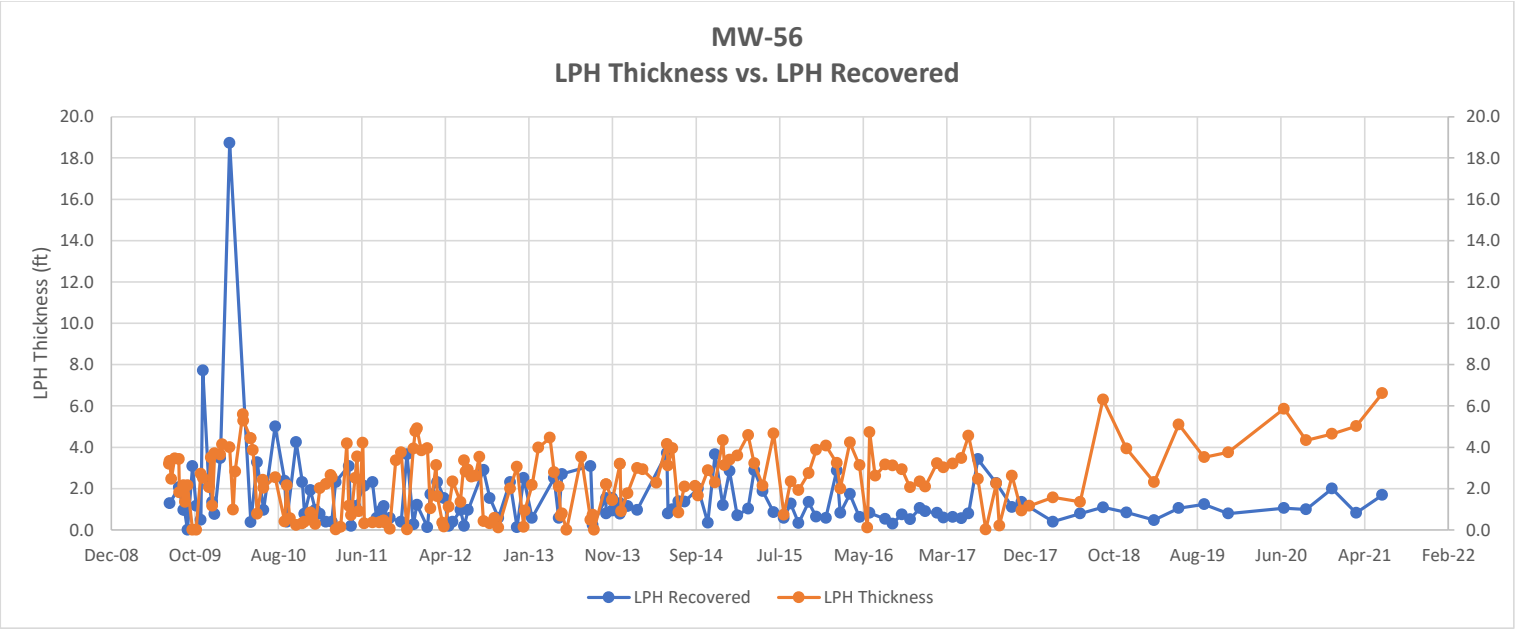

MW-53
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
250.0
200.0
150.0
100.0
50.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

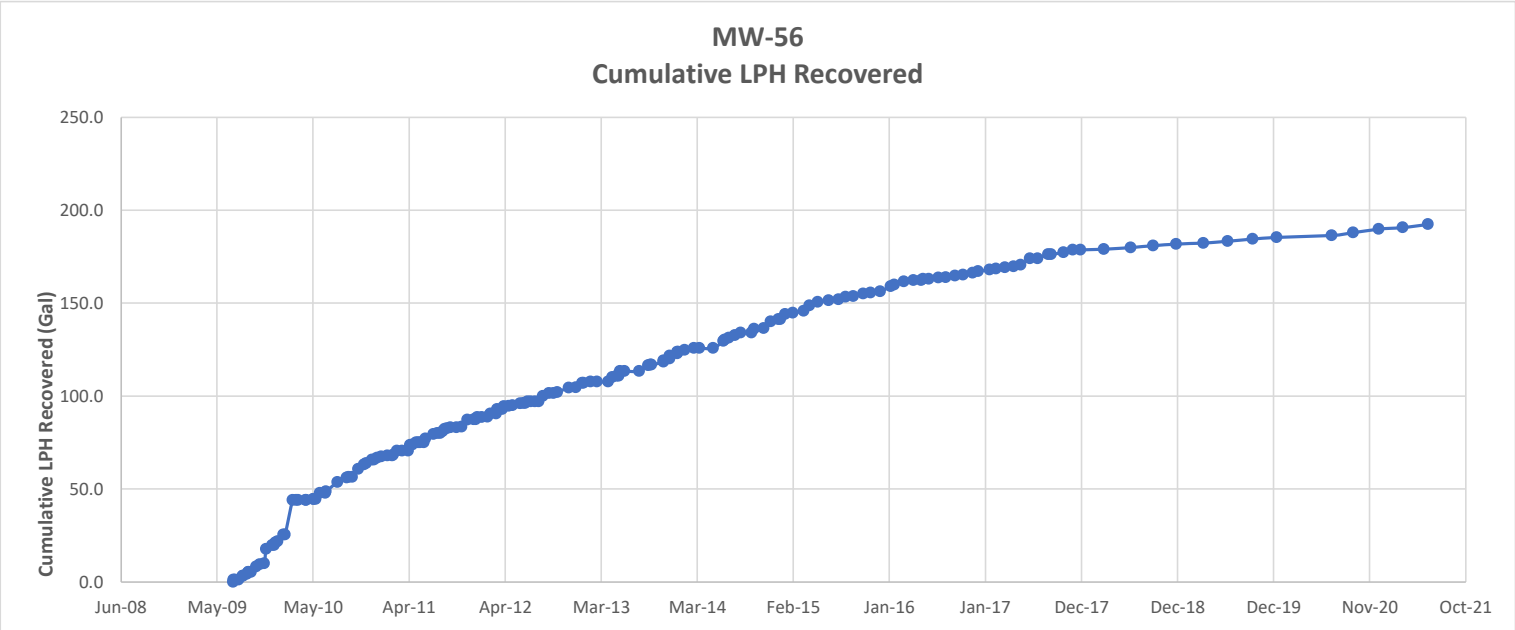

MW-54
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

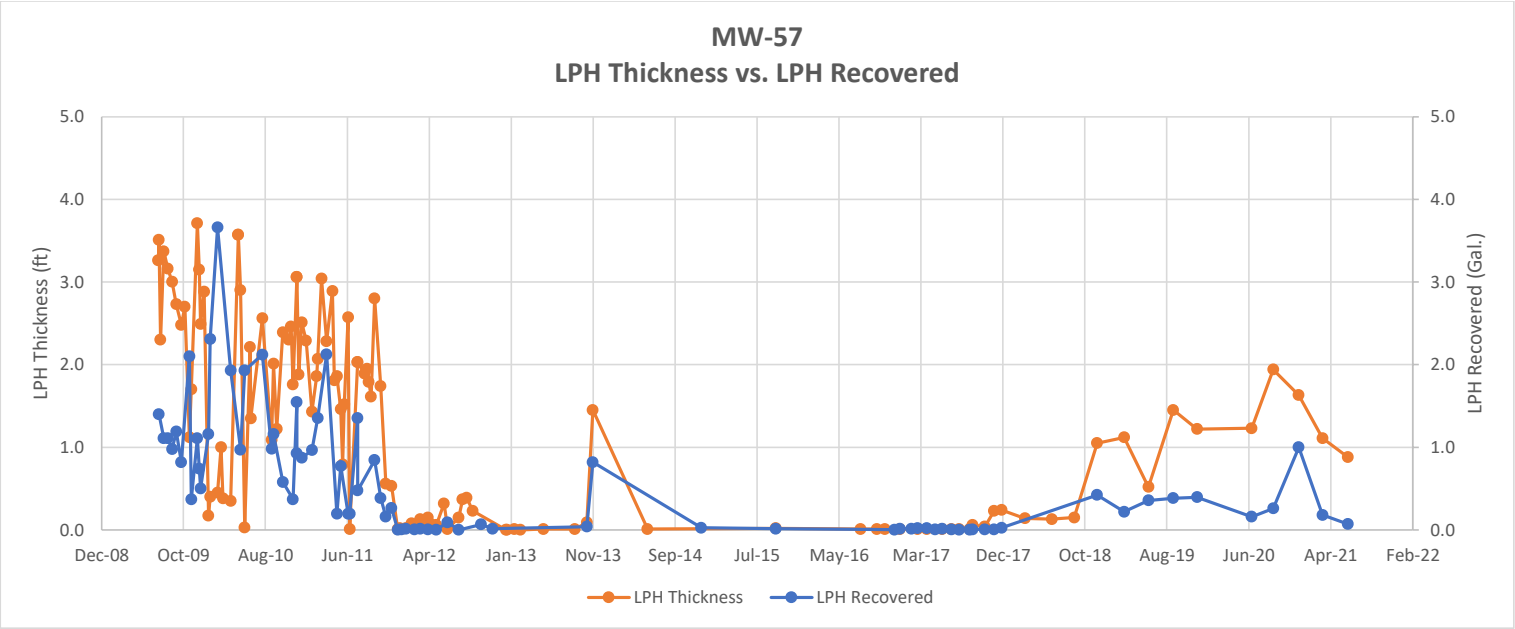

MW-54
Cumulative LPH Recovered
LPH Recovered (Gal)
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

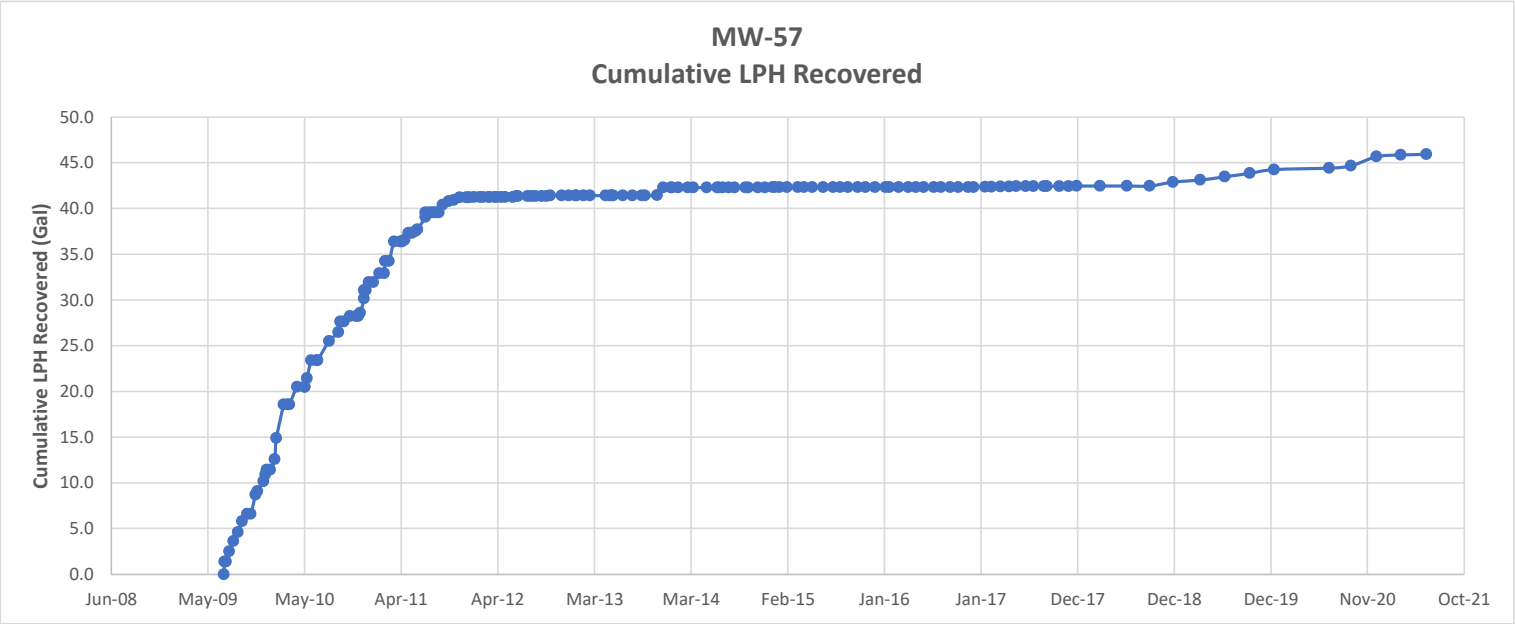

MW-55
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

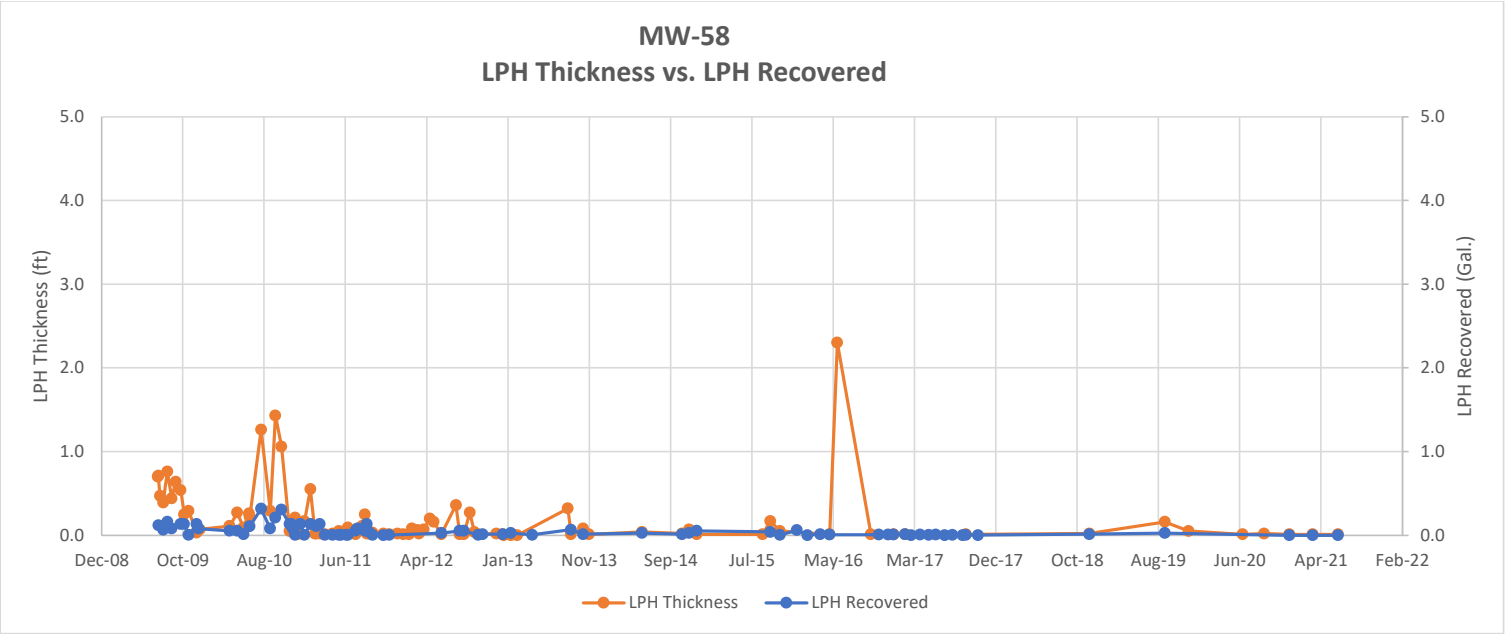

MW-55
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

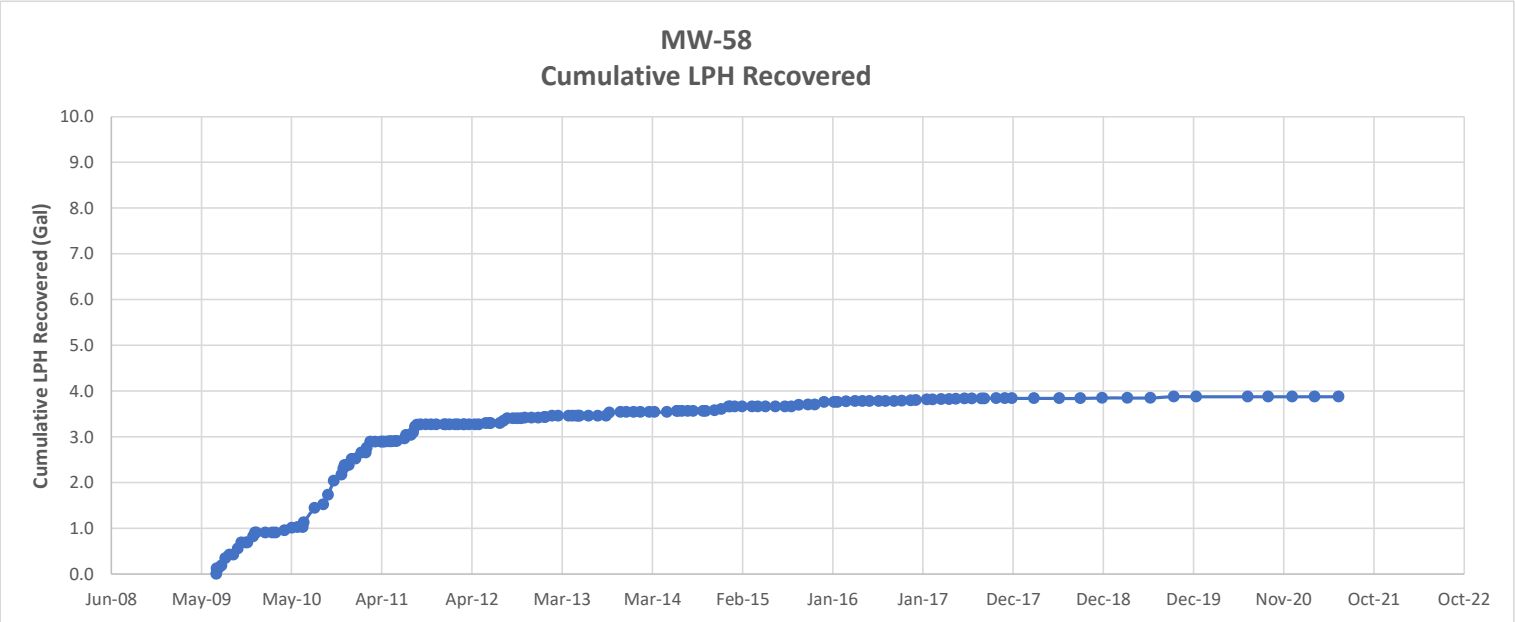

MW-56
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Recovered
LPH Thickness

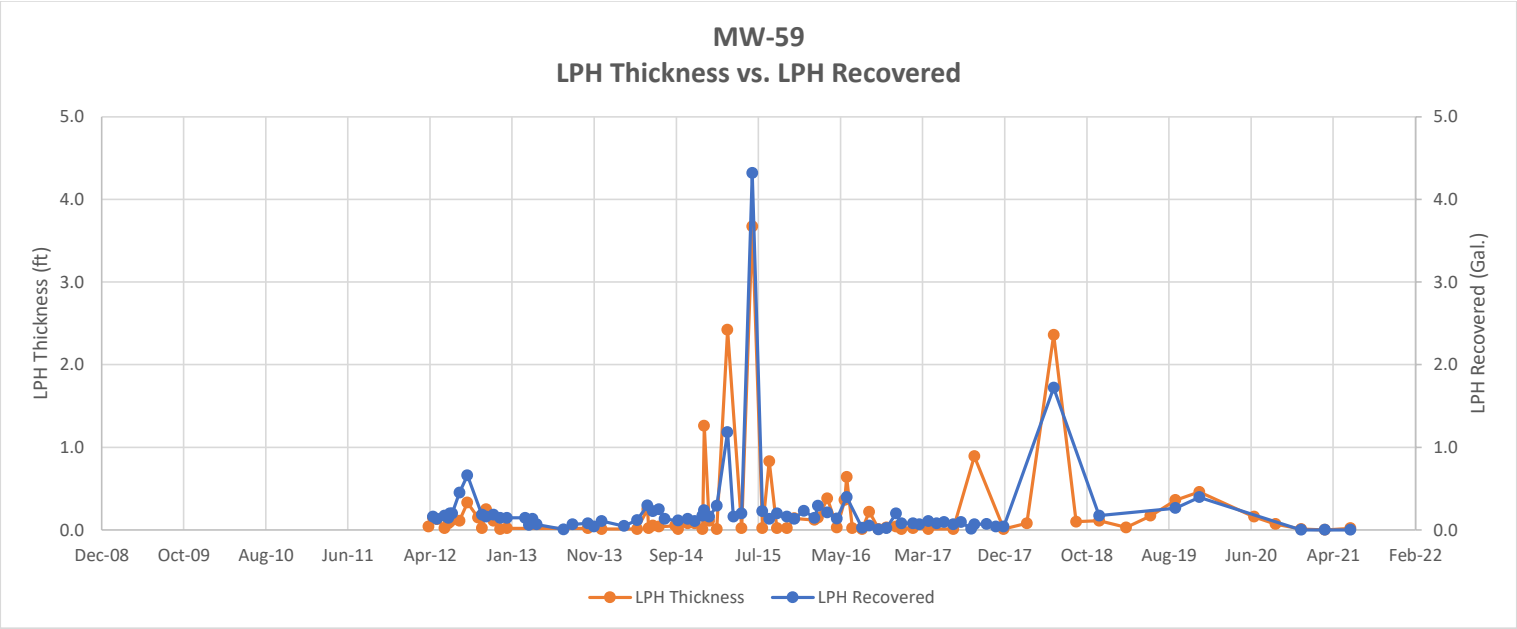

MW-56
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
250.0
200.0
150.0
100.0
50.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

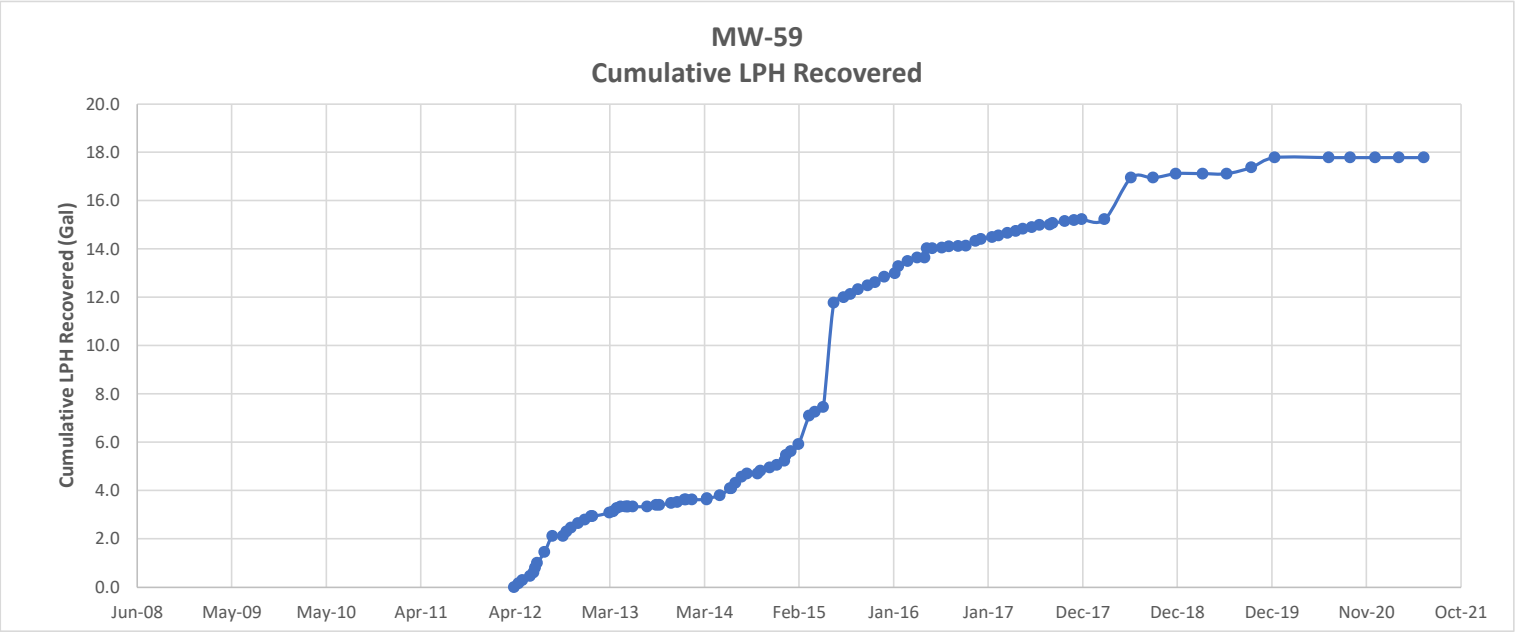

MW-57
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

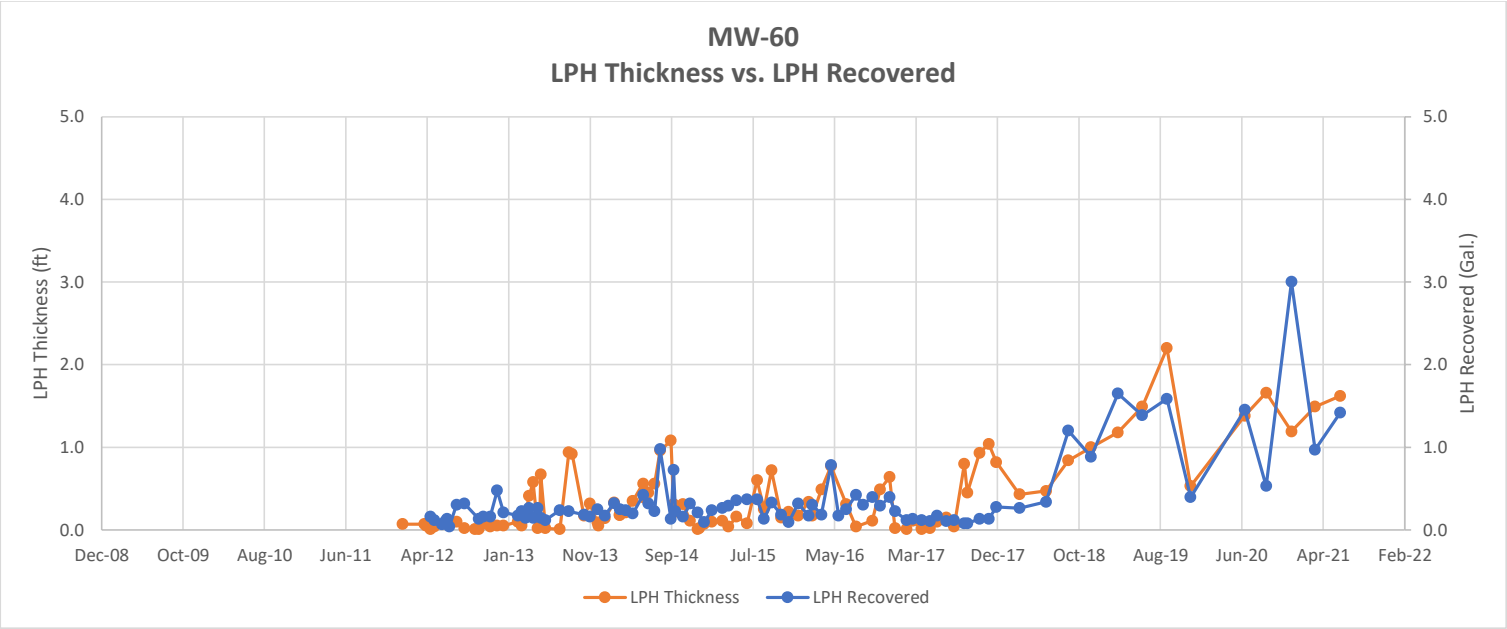

MW-57
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

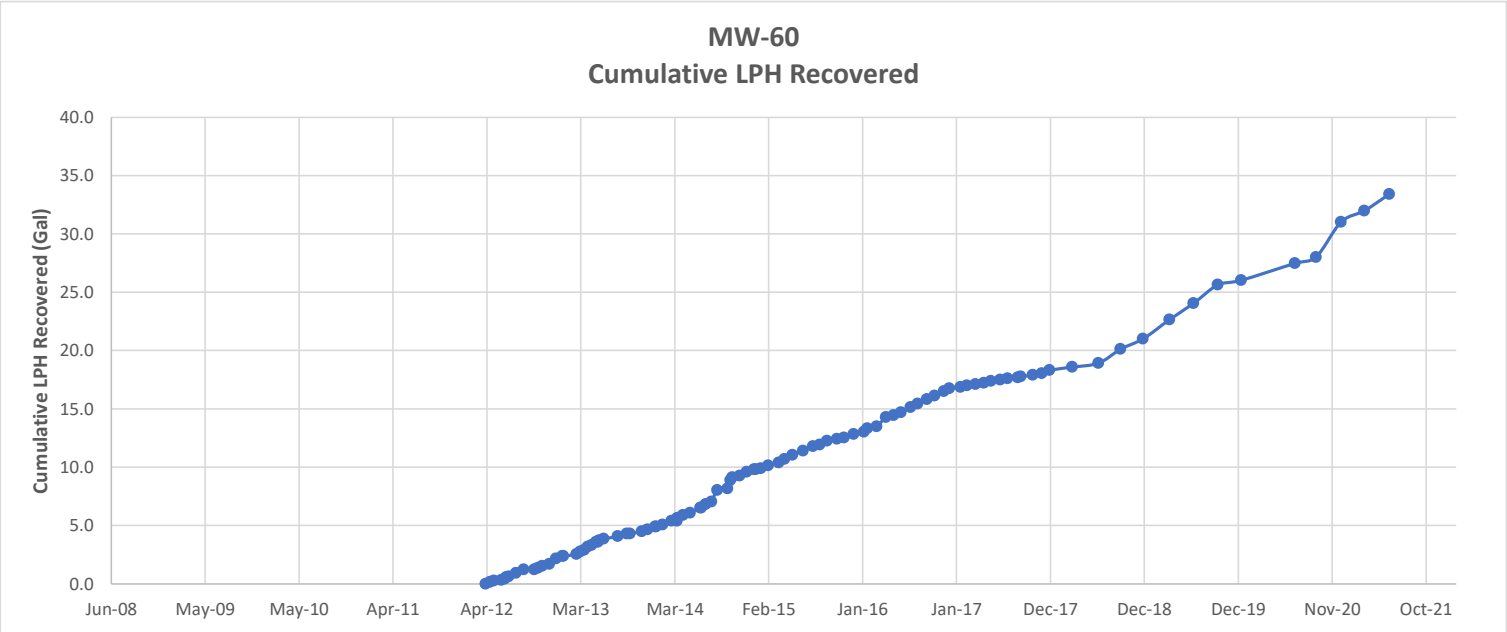

MW-58
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

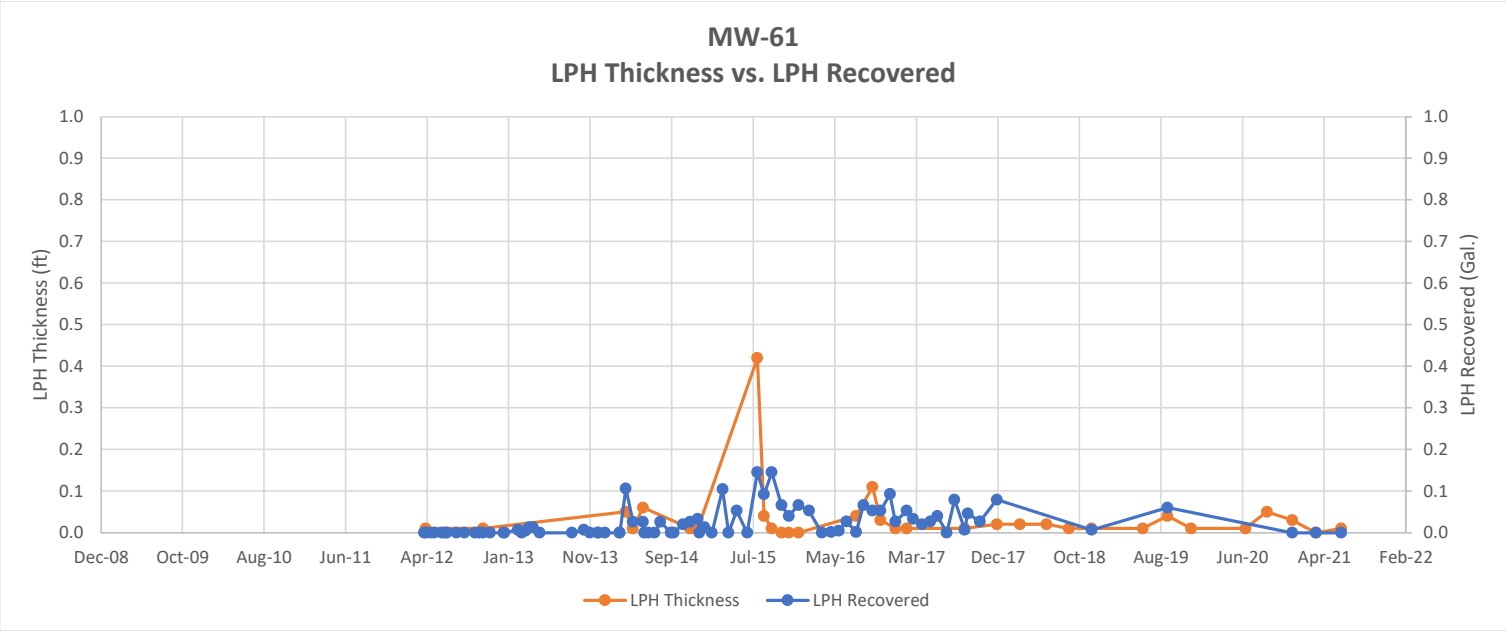

MW-58
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21
Oct-22

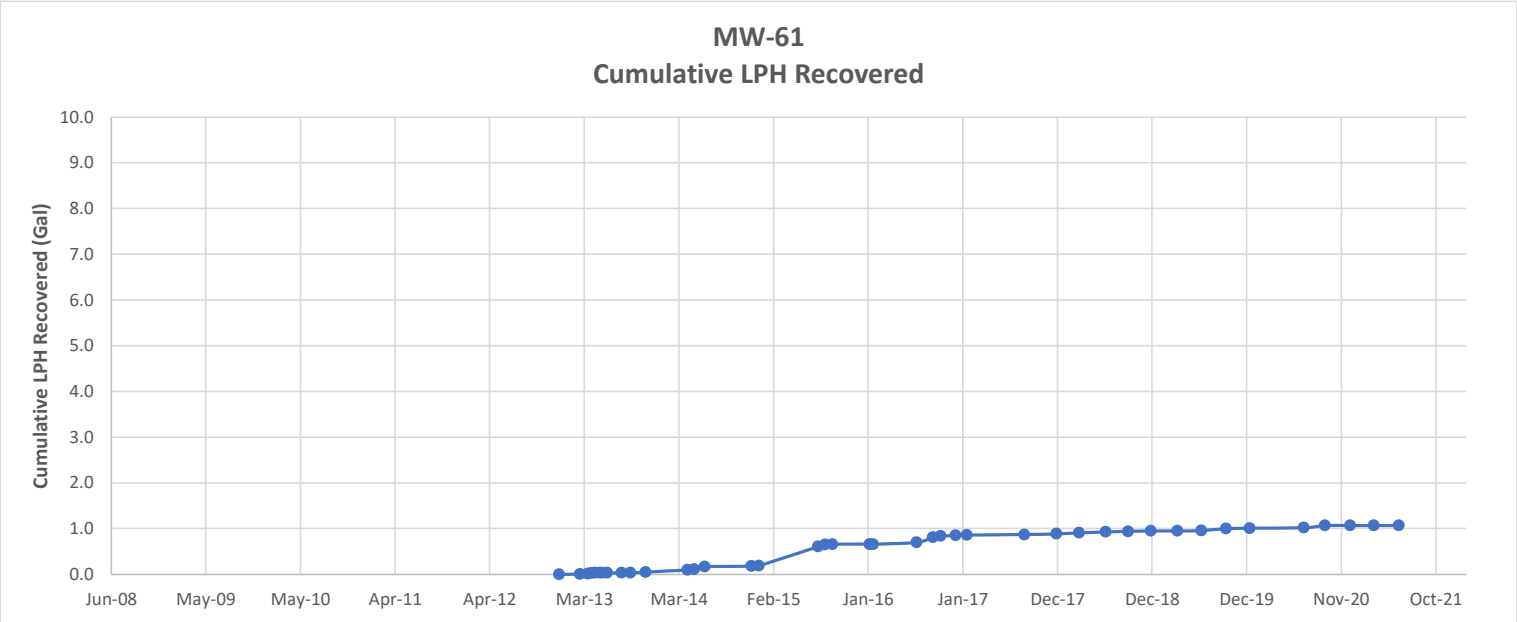

MW-59
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

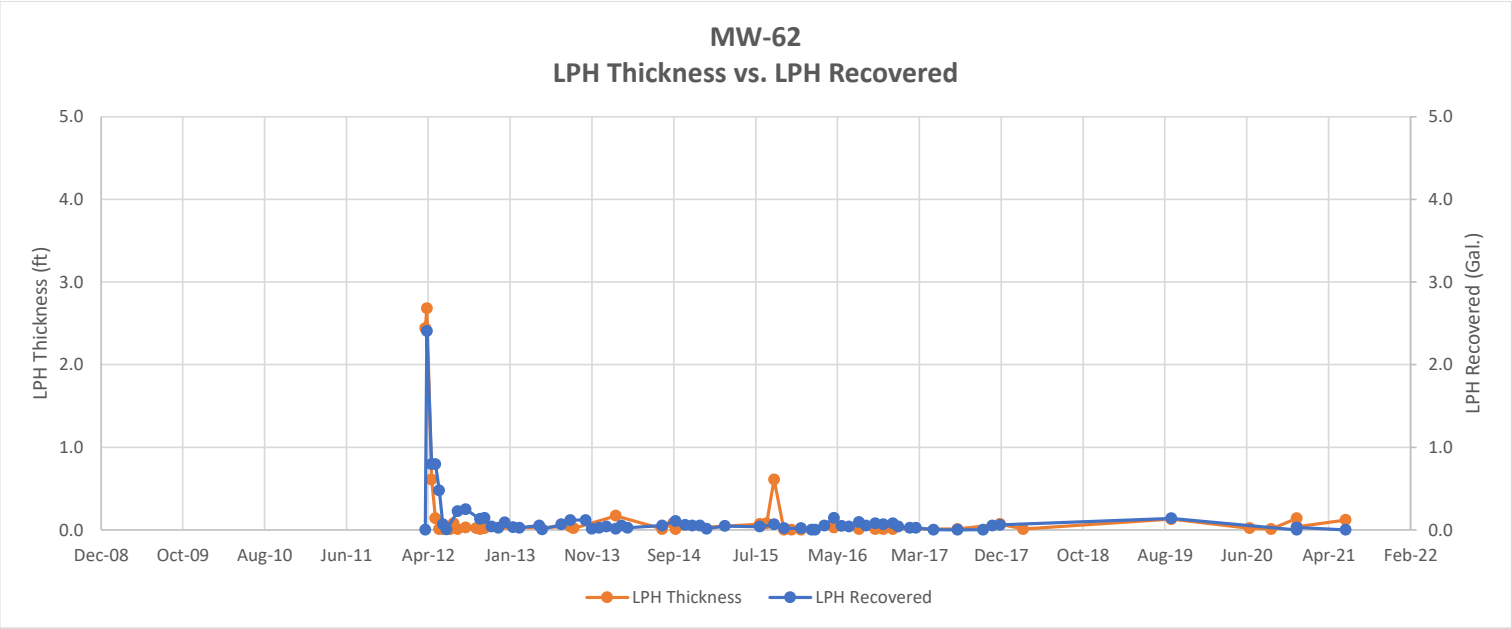

MW-59
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

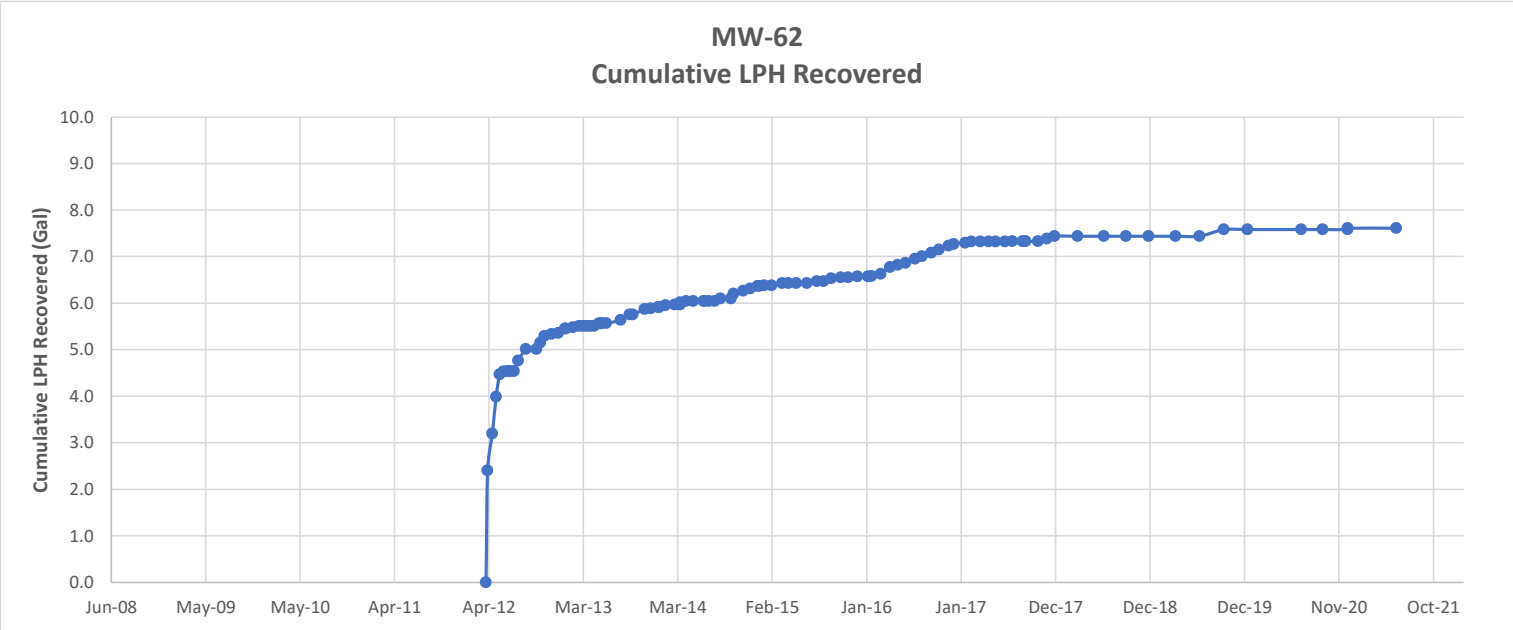

MW-60
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

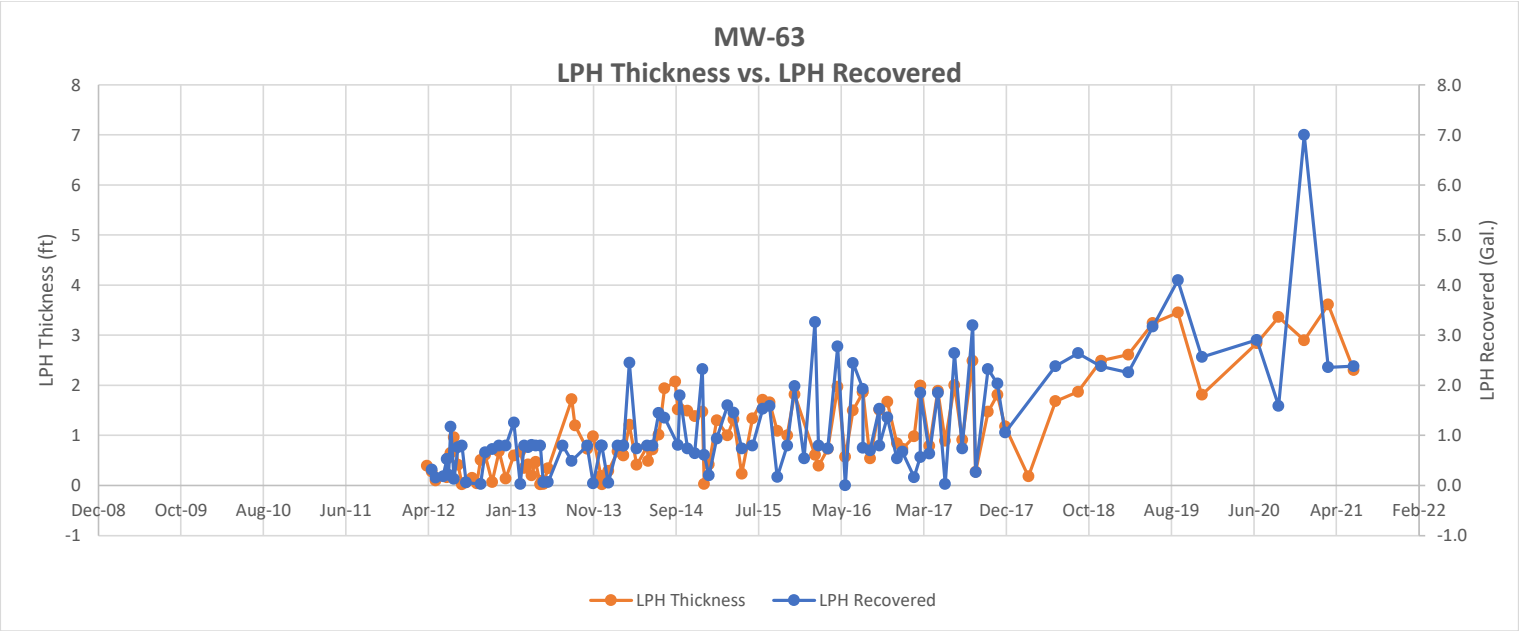

MW-60
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

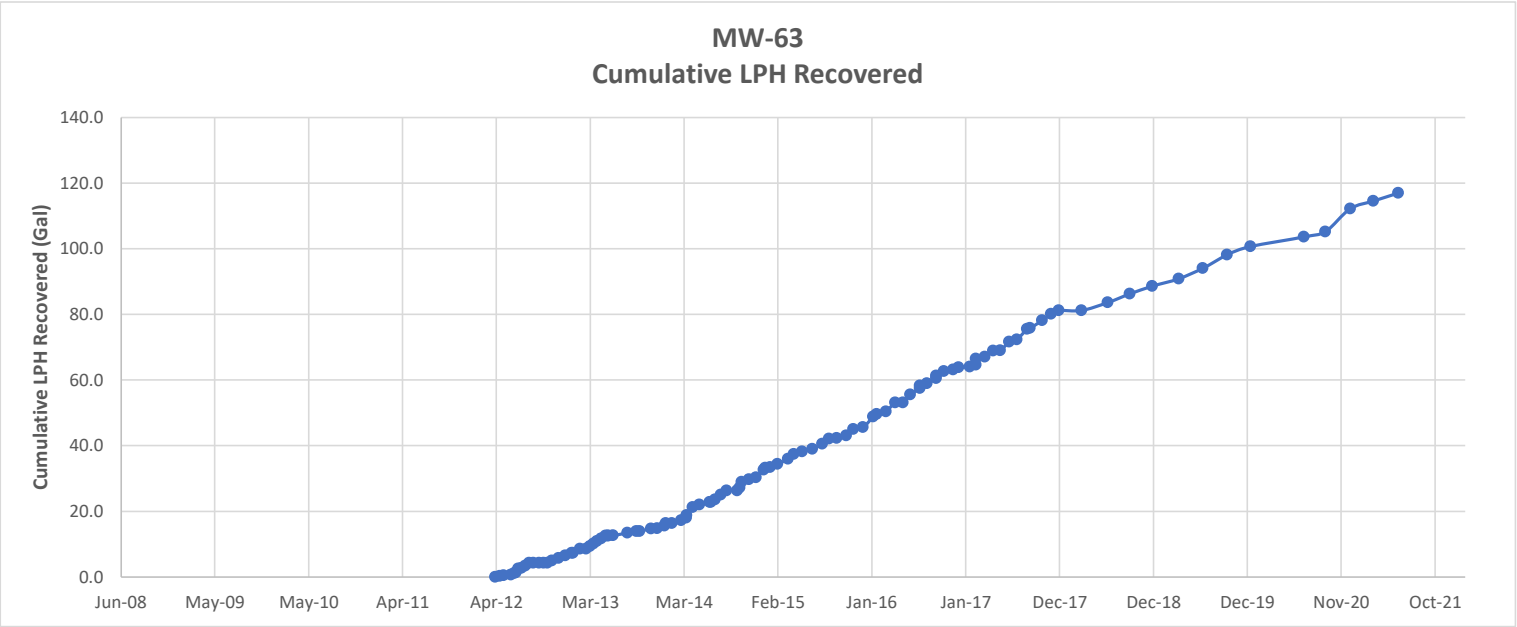

MW-61
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

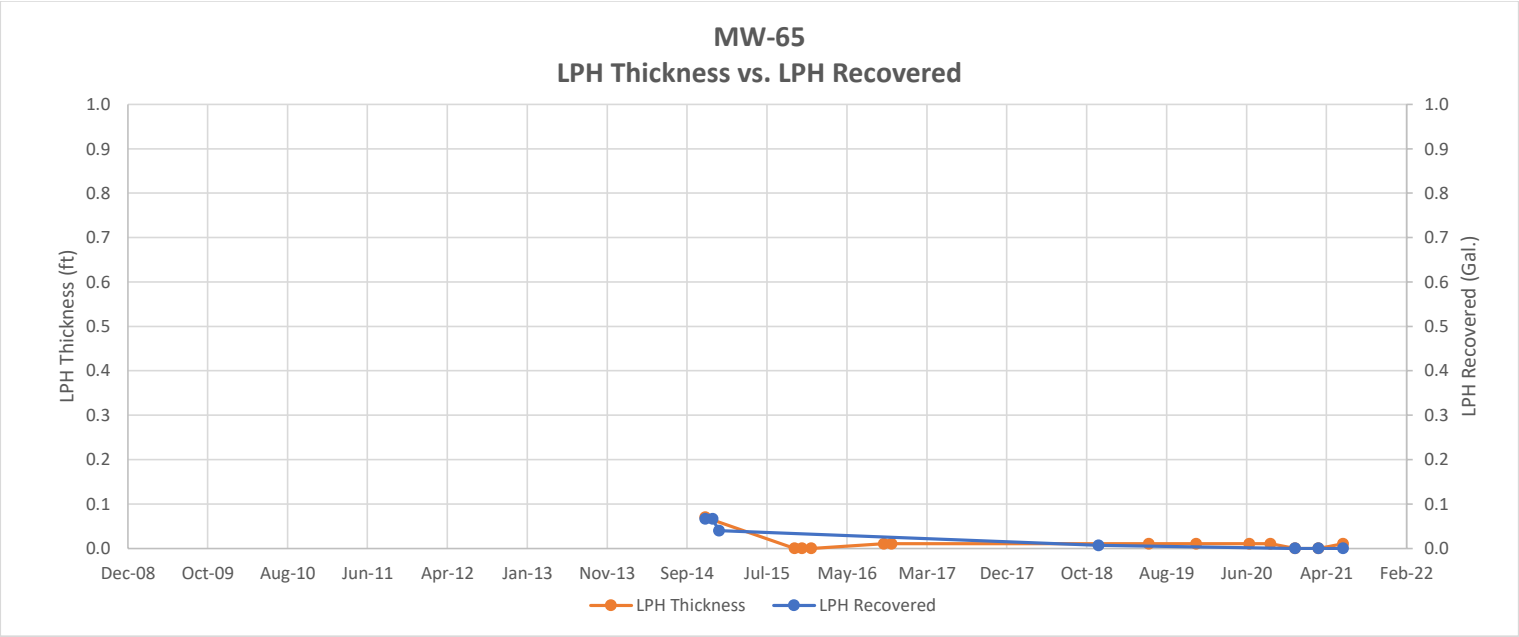

MW-61
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

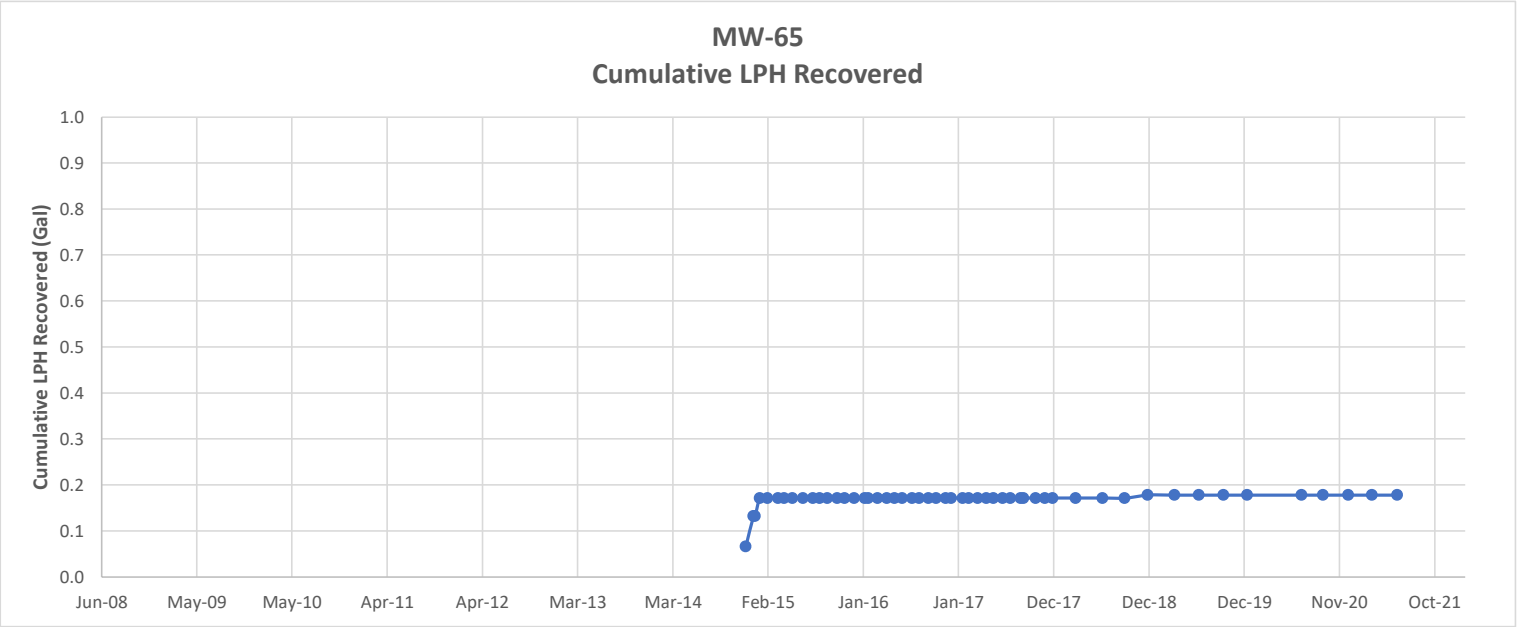

MW-62
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
5.0
4.0
3.0
2.0
1.0
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

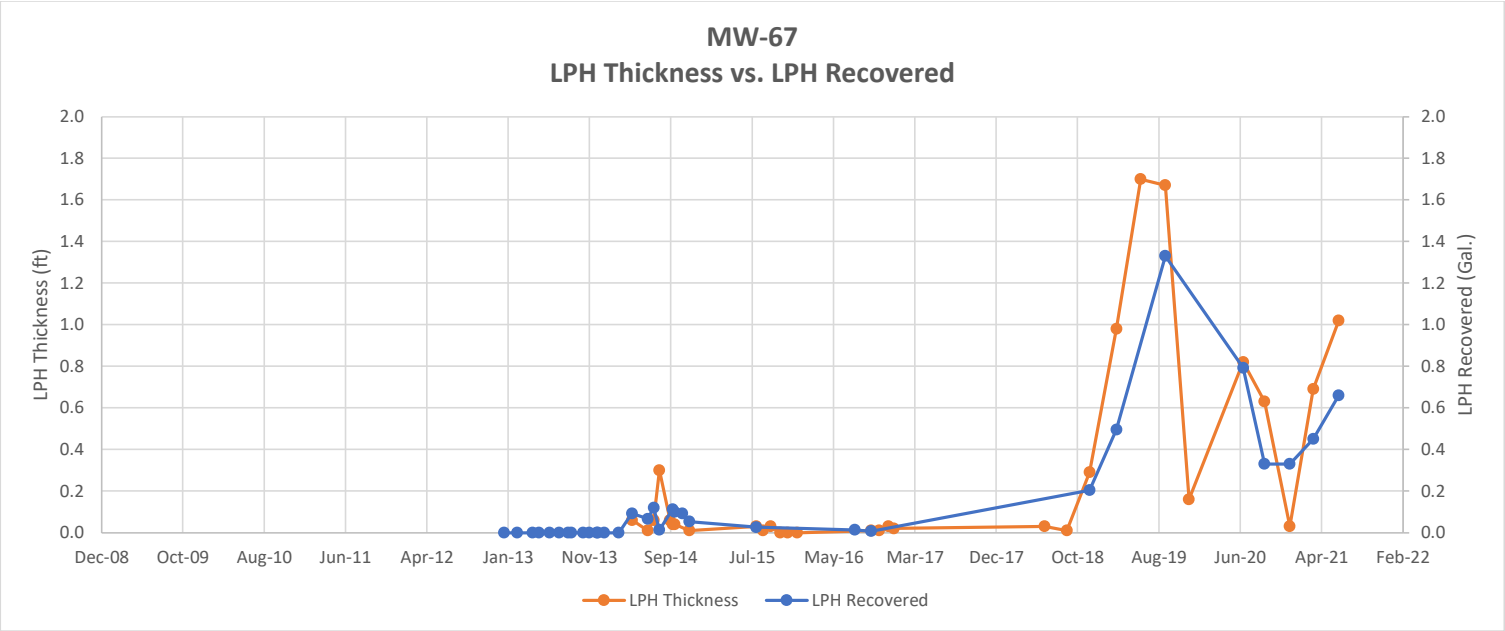

MW-62
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

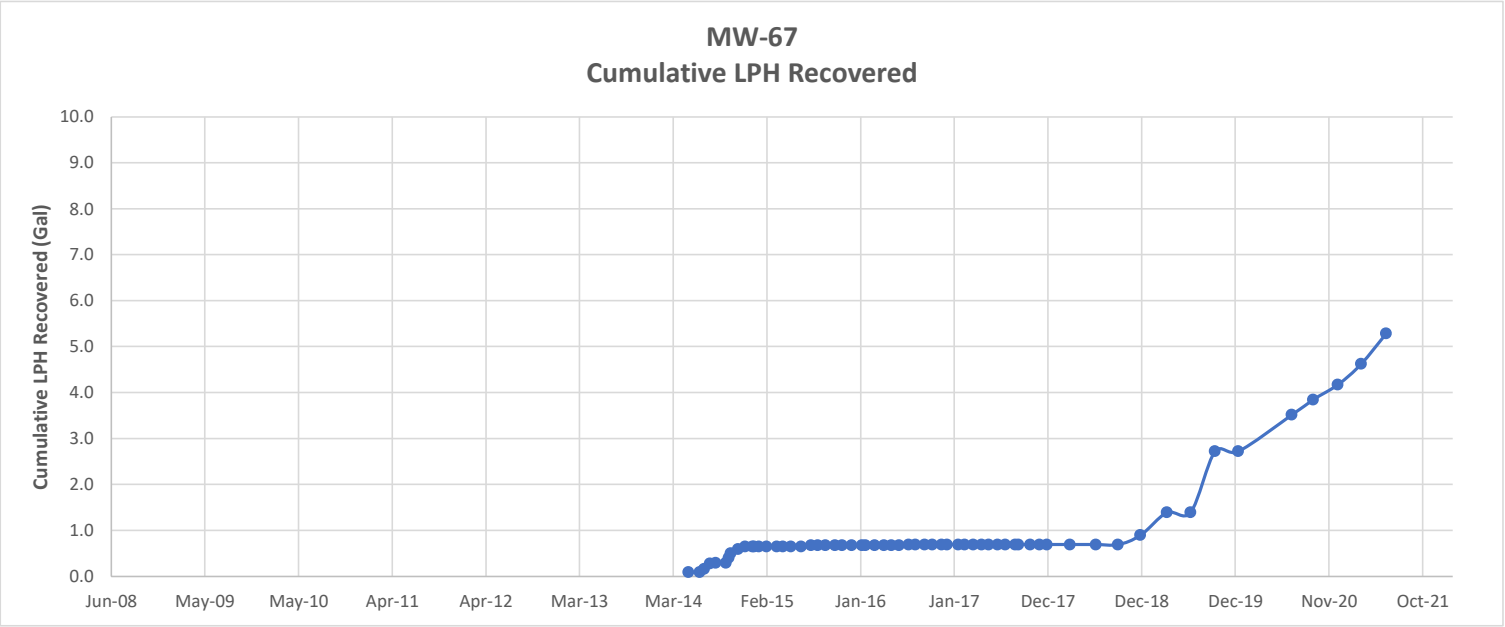

MW-63
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
8
7
6
5
4
3
2
1
0
-1
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

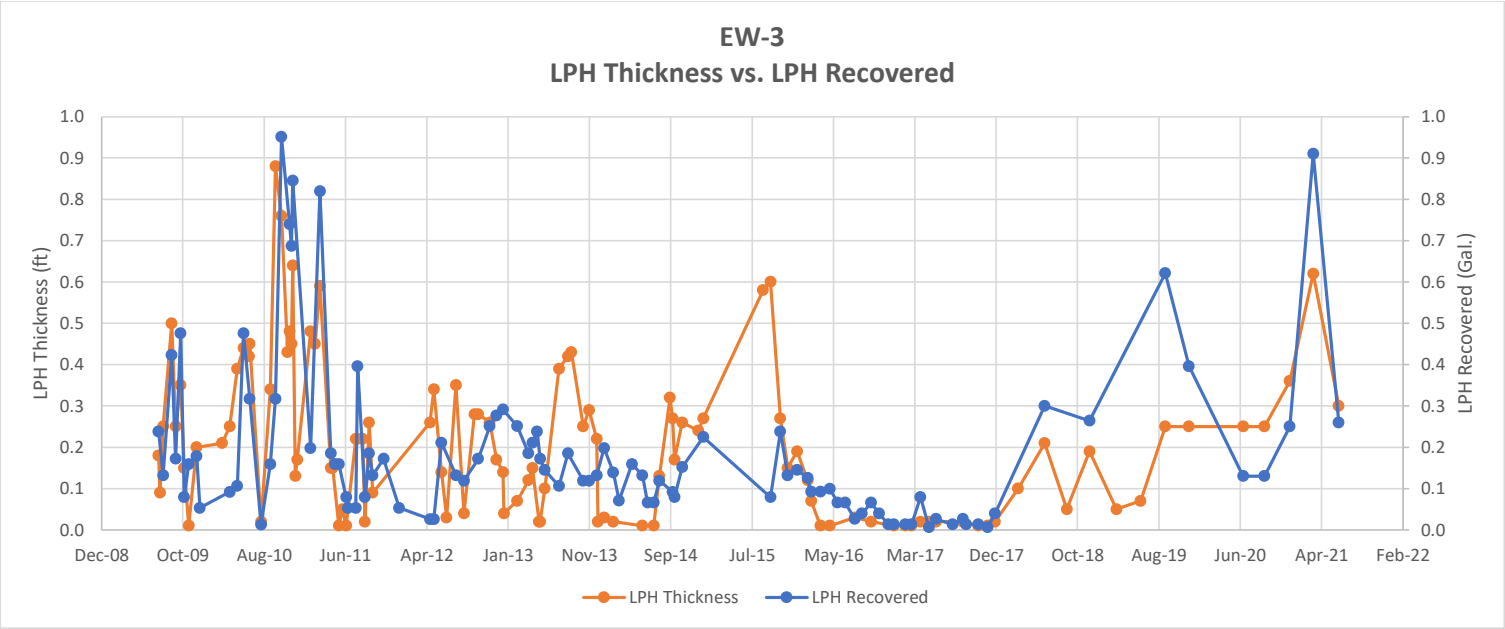

MW-63
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

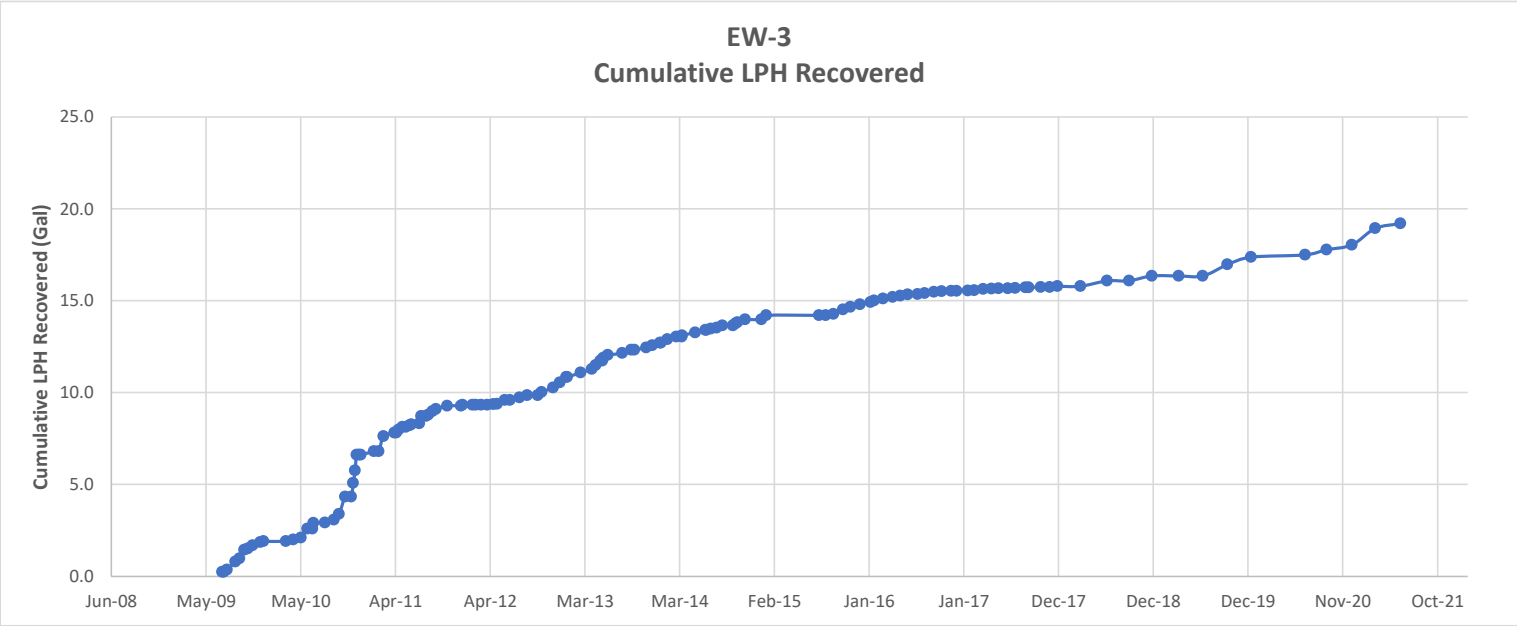

MW-65
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

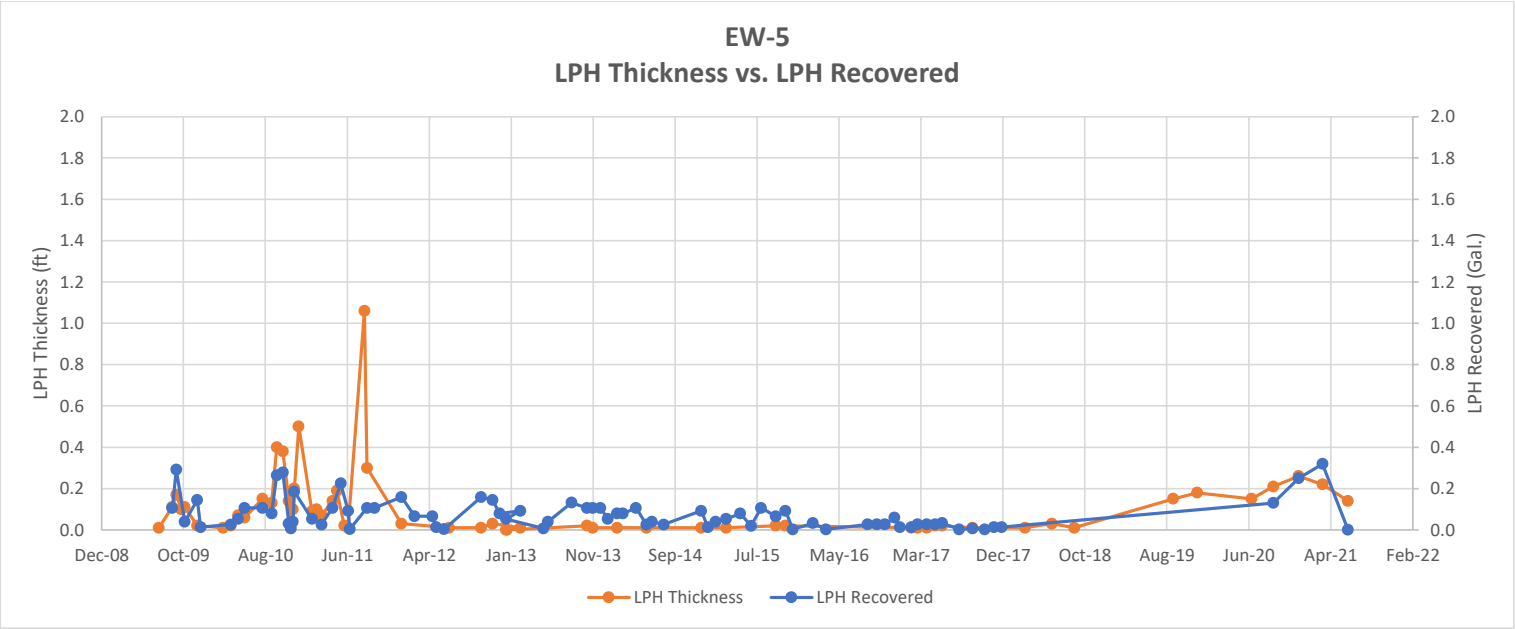

MW-65
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

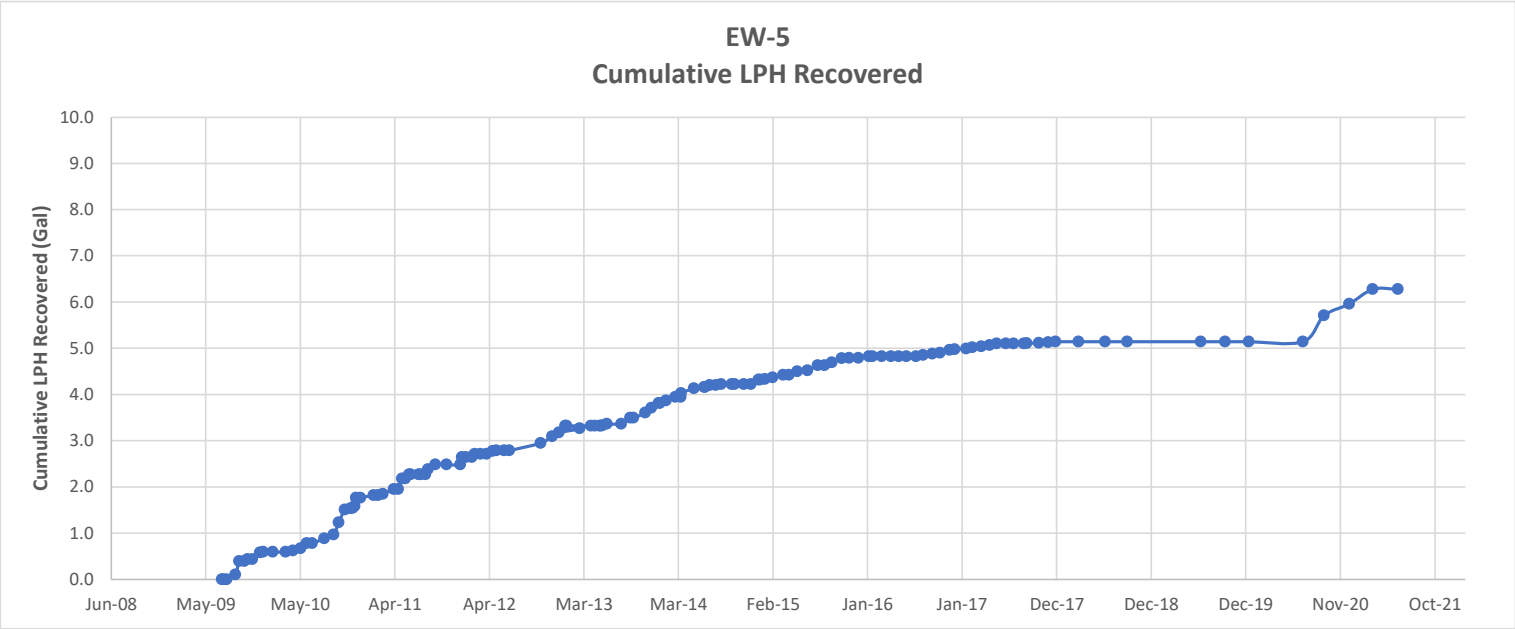

MW-67
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered

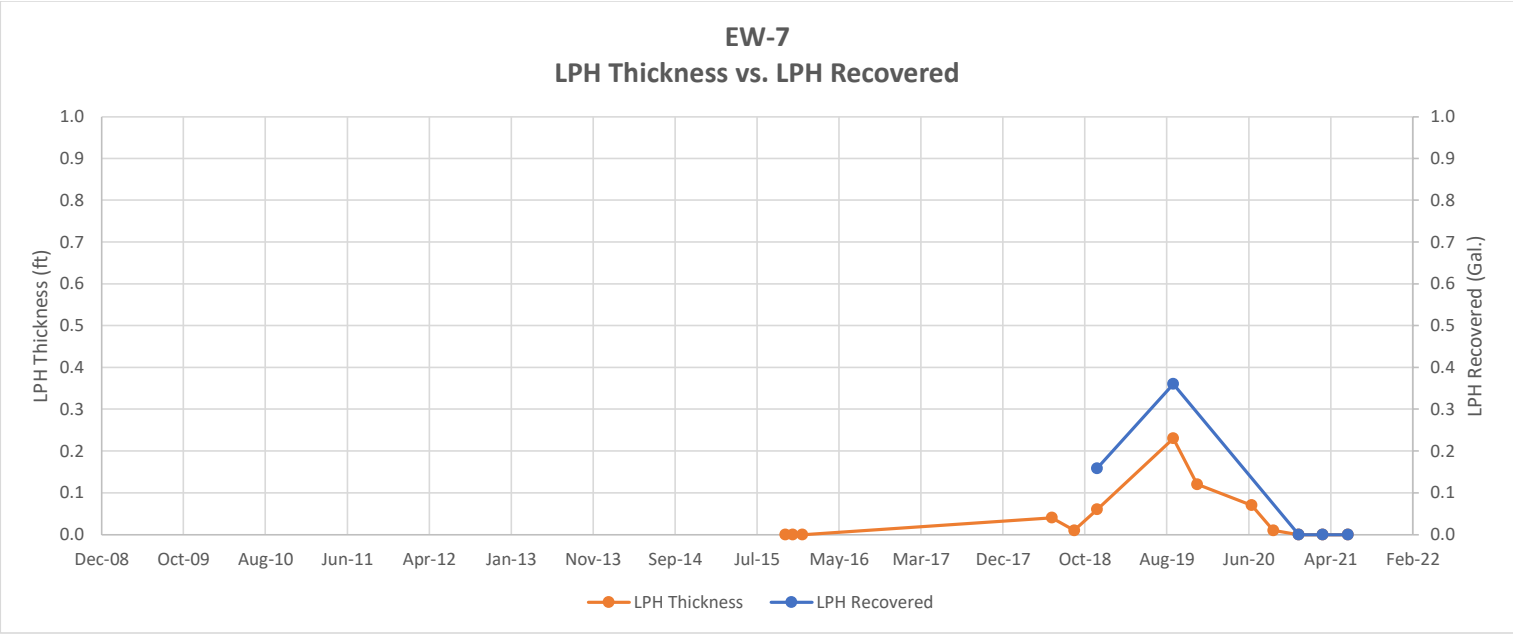

MW-67
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

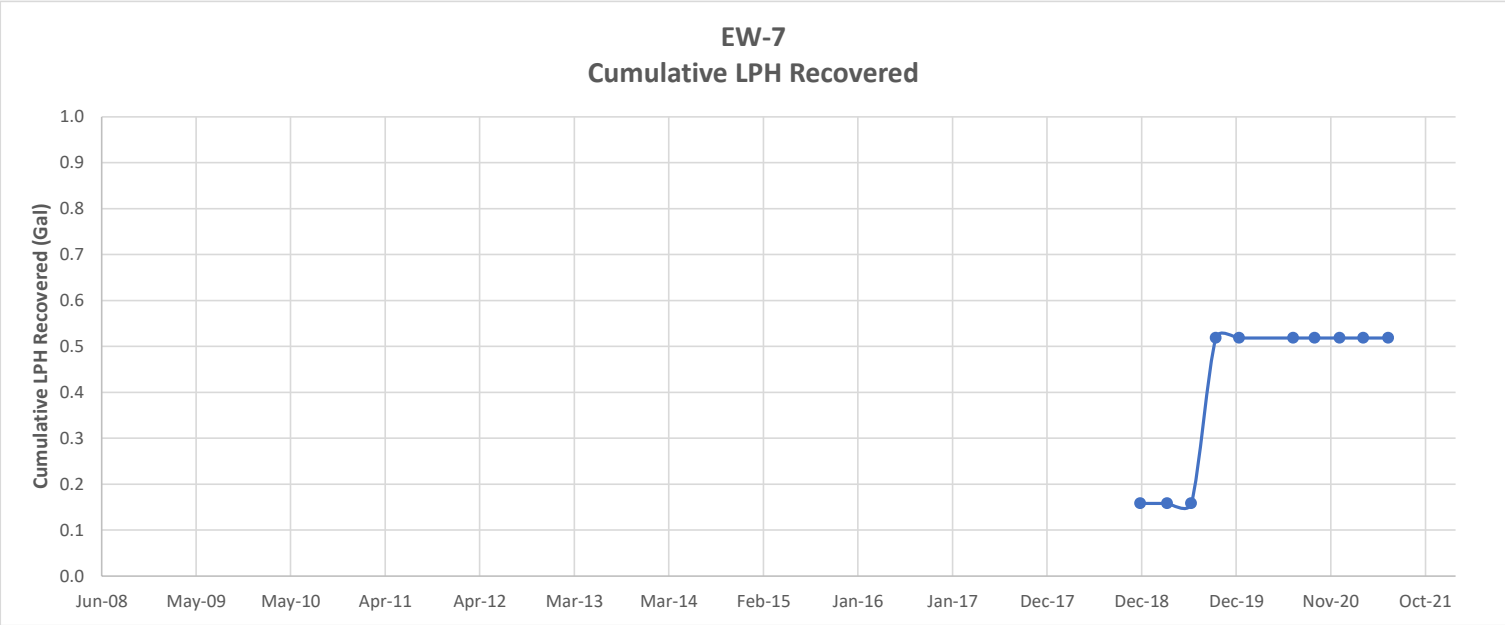

EW-3
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered


EW-3
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
25.0
20.0
15.0
10.0
5.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21


EW-5
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered


EW-5
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21


EW-7
LPH Thickness vs. LPH Recovered
LPH Thickness (ft)
LPH Recovered (Gal.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-08
Oct-09
Aug-10
Jun-11
Apr-12
Jan-13
Nov-13
Sep-14
Jul-15
May-16
Mar-17
Dec-17
Oct-18
Aug-19
Jun-20
Apr-21
Feb-22
LPH Thickness
LPH Recovered


EW-7
Cumulative LPH Recovered
Cumulative LPH Recovered (Gal)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jun-08
May-09
May-10
Apr-11
Apr-12
Mar-13
Mar-14
Feb-15
Jan-16
Jan-17
Dec-17
Dec-18
Dec-19
Nov-20
Oct-21

Attachment 3

Sample Logs

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project	CSXT Brunswick	Project No.	30042868
Site Location	Brunswick, MD	Date	6/18/21
Well No.	CSXT MW-03	Replicate No.	—
Weather	Clear		
Sampling Personnel	AF/DK	Sampling Time:	0840 Begin — End 0842

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	25.90
Depth to Water (ft bmp)	14.08
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	11.82
Casing Diameter	4
Gallons in Well	7.68 (3: 23.05)
Gallons Purged Prior to Sampling	23.05
Pump Intake	—
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	~~Monsoon Pump~~ Bailer
Sampling Method	~~Monsoon Pump~~ Bailer
Purge Time	Begin 0820 End 0838

Field Parameters

Color	Brown			
Odor	None			
Appearance	Hazey			

	I	1V	2V	3V
pH (s.u.)	5.35	6.81	7.19	7.34
Conductivity (mS/cm) or (µmhos/cm) 1)	0.751	0.818	1.437	2.177
Temperature (°C)	16.15	16.07	16.30	16.78
DO (mg/L)	5.91	2.97	3.38	3.51
ORP (mV)	-5.2	31.4	49.8	61.9
Turbidity (NTU)	–	–	–	–
Time	0821	0827	0832	0838
DTW (ft bmp)	14.91	15.73	15.70	15.85

Remarks: Sample ID: CSXTMW-03 (061821) @ 0840

Parameter	Container	No.	Preservative
VOC	40mL Clr	2	HCL
DRO	250mL Amb	2	None
GRO	40mL Clr	2	HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No. 30042868
Site Location: Brunswick, MD | Date: 6/17/21
Well No. CSXT MW-06R | Replicate No. ~ | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 1510 Begin – End 1512

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	14.37
Depth to Water (ft bmp)	4.17
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	10.5
Casing Diameter	4
Gallons in Well	6.8 (3=20.4)
Gallons Purged Prior to Sampling	
Pump Intake	—
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 14.52 End 1512

Field Parameters

Color: Gray
Odor: Slight
Appearance: Hazey

	I	1V	2V	3V
pH (s.u.)	6.95	6.29	6.47	6.58
Conductivity (mS/cm) or (µmhos/cm) 1)	0.225	0.506	0.593	0.602
Temperature (°C)	15.92	13.96	13.66	13.60
DO (mg/L)	2.24	2.33	1.72	2.23
ORP (mV)	57.8	36.8	[illegible]	-57.4
Turbidity (NTU)	-	-	-44.9	-
Time	14.52	14.58	1503	1507
DTW (ft bmp)	4.65	6.00	6.78	6.63

Remarks: Sample ID= CSXT MW-06R (061721) @ 1510

Parameter	Container	No.	Preservative
VOC	40mL Clr	2	HCL
DRO	250mL Clr	2	None
GRO	40mL Clr	2	HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/17/21
Well No.: CSXT MW-22 | Replicate No.: DUP-01 | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 1710 | Begin: -- | End: 1715

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	18.60
Depth to Water (ft bmp)	9.97
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	8.63
Casing Diameter	4
Gallons in Well	5.61 (3= 16.8)
Gallons Purged Prior to Sampling	12.5
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 1653 End 1715

Field Parameters

		I	1V	2V	3V
Color		Brown			
Odor		none			
Appearance		very turbid			
pH (s.u.)		6.61	6.20	6.50	
Conductivity (mS/cm) or (µmhos/cm) 1)		0.407	0.572	0.525	
Temperature (°C)		17.55	15.79	16.09	
DO (mg/L)		1.14	2.04	2.67	
ORP (mV)		21.7	-66.2	-80.5	
Turbidity (NTU)		-	-	-	-
Time		1654	1658	1705	
DTW (ft bmp)		11.02	14.00	17.05	

Remarks: sample ID = CSXT MW-22(061721) @ 1710

Dup taken here

Parameter	Container	No.	Preservative
VOC			
GRO			
DRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868

Site Location: Brunswick, MD | Date: 6/18/21

Well No.: CSXT MW-24 | Replicate No.: — | Weather: clear

Sampling Personnel: AF/DK | Sampling Time: 1050 Begin: — | End: 1052

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	14.35
Depth to Water (ft bmp)	4.44
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	9.91
Casing Diameter	4
Gallons in Well	6.44 (3= 19.3)
Gallons Purged Prior to Sampling	~ 6.4
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 1037 End 1052

Field Parameters

Color	Black			
Odor	None			
Appearance	very turbid			

	I	1V	2V	3V
pH (s.u.)	7.61	7.02		
Conductivity (mS/cm) or (µmhos/cm) 1)	0.113	0.106		
Temperature (°C)	21.01	17.86		
DO (mg/L)	6.05	3.96		
ORP (mV)	79.4	112.0		
Turbidity (NTU)	–	–	–	–
Time	1038	1045		
DTW (ft bmp)	7.84	12.80		

Remarks: Sample ID = CSXT MW-24 (061821) @ 1050

Parameter	Container	No.	Preservative
VOC			
DRO			
GRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/18/21
Well No.: CSXT MW-25 | Replicate No.: — | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 0815 | Begin: – | End: 0811

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	19.15
Depth to Water (ft bmp)	12.07
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	7.08
Casing Diameter	4
Gallons in Well	4.6 (3=13.8)
Gallons Purged Prior to Sampling	13.8
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 0754 End 0811

Field Parameters

Color: Brown
Odor: none
Appearance: very turbid

	I	1V	2V	3V
pH (s.u.)	7.64	7.88	9.55	8.87
Conductivity (mS/cm) or (µmhos/cm) 1)	0.428	0.555	0.570	0.579
Temperature (°C)	15.90	15.97	15.81	15.96
DO (mg/L)	7.48	2.55	2.76	1.41
ORP (mV)	101.6	-29.4	-61.4	-74.6
Turbidity (NTU)	–	–	–	–
Time	0755	0801	0805	0810
DTW (ft bmp)	12.54	13.65	13.31	14.18

Remarks: sample ID = CSXT MW-25(061821) @ 0815

Parameter	Container	No.	Preservative
VOC			
GRO			
DRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project	CSXT Brunswick	Project No.	30042868
Site Location	Brunswick, MD	Date	6/17/21
Well No.	CSXT MW-43	Replicate No.	–
Weather	clear		
Sampling Personnel	AF/DK	Sampling Time: 1415 Begin	–
End	1415		

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	16.06
Depth to Water (ft bmp)	4.82
Depth to Packer (ft bmp)	----
Water Column in Well (ft)	11.24
Casing Diameter	4
Gallons in Well	7.3 (3= 21.9)
Gallons Purged Prior to Sampling	21.9
Pump Intake Setting (ft bmp)	---- –
Packer Pressure (psi)	----
Pumping Rate (gpm)	----
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 1353 End 1143

Field Parameters

Color	Light Brown
Odor	None
Appearance	Hazey

	I	1V	2V	3V
pH (s.u.)	6.87	6.68	6.62	6.65
Conductivity (mS/cm) or (µmhos/cm) 1)	0.372	0.368	0.387	
Temperature (°C)	15.53	14.58	14.61	15.14
DO (mg/L)	1.09	2.36	3.32	1.62
ORP (mV)	102.9	86.4	81.8	21.0
Turbidity (NTU)	–	–	–	–
Time	1354	1358	14.04	1412
DTW (ft bmp)	5.18	7.80	9.68	11.43

Remarks: Sample ID = CSXT MW-43 (061721) @ 1415

Parameter	Container	No.	Preservative
VOC	40 mL Clr	2	HCL
GRO	40 mL Clr	2	HCL
DRO	250 mL Amb	2	None

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	~~4" = 0.65~~
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/17/21
Well No.: CSXT MW-51 | Replicate No.: — | Weather: clear
Sampling Personnel: D. Kramer / A. Feild | Sampling Time: 1635 Begin: — End: 1635

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	24.72
Depth to Water (ft bmp)	8.68
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	16.04
Casing Diameter	4
Gallons in Well	10.4 (3 = 31.2)
Gallons Purged Prior to Sampling	31.2
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 1212 End 1637

Field Parameters

Color: Brown
Odor: None
Appearance: Hazey

	I	1V	2V	3V
pH (s.u.)	7.66	6.61	6.50	6.30
Conductivity (mS/cm) or (µmhos/cm) 1)	0.350	0.369	0.375	0.398
Temperature (°C)	18.14	15.84	16.02	18.21
DO (mg/L)	7.89	4.74	4.06	4.88
ORP (mV)	103.2	101.2	98.4	115.7
Turbidity (NTU)	–	–	–	–
Time	1612	1617	1623	1632
DTW (ft bmp)	9.93	13.96	17.07	20.90

Remarks: Sample ID = CSXT MW-51 (061721) @ 1635

Parameter	Container	No.	Preservative
GRO	40mL Clr	2	HCL
DRO	250 40mL Amb	2	None
VOC	40mL Clr	2	HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/18/21
Well No.: CSXT MW-64 | Replicate No.: — | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 1010 Begin: — End: 1005

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	22.29
Depth to Water (ft bmp)	3.49
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	18.8
Casing Diameter	4
Gallons in Well	12.22 (3= 36.7)
Gallons Purged Prior to Sampling	36.7
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 0927 End 1005

Field Parameters

Color	brown
Odor	none
Appearance	turbid

	I	1V	2V	3V
pH (s.u.)	7.59	8.07	7.85	7.48
Conductivity (mS/cm) or	0.870	0.924	0.945	0.987
(µmhos/cm) 1)	—	—	—	—
Temperature (°C)	20.39	20.83	20.64	21.03
DO (mg/L)	1.73	3.77	4.34	3.53
ORP (mV)	-16.8	29.9	52.0	65.3
Turbidity (NTU)	–	–	–	–
Time	0938	0946	0955	1005
DTW (ft bmp)	3.63	3.68	3.65	3.66

Remarks: Sample ID = CSXT MW-64(061821)@ 1010

Parameter	Container	No.	Preservative
VOC			
GRO			
DRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/18/21
Well No.: CSXT MW-69 | Replicate No.: — | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 0925 Begin – End 0927

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	22.51
Depth to Water (ft bmp)	10.83
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	11.68
Casing Diameter	4
Gallons in Well	7.60 (3= 22.8)
Gallons Purged Prior to Sampling	22.8
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 0855 End 0927

Field Parameters

Color: Brown
Odor: none
Appearance: very turbid

	I	1V	2V	3V
pH (s.u.)	9.37	5.67	6.85	9.19
Conductivity (mS/cm) or (µmhos/cm) 1)	0.455	0.451	0.471	0.487
Temperature (°C)	16.51	16.59	16.27	16.42
DO (mg/L)	1.08	1.47	1.71	1.91
ORP (mV)	-8.9	-54.6	-54.5	-52.3
Turbidity (NTU)	–	–	–	–
Time	0856	0907	0914	0923
DTW (ft bmp)	11.33	11.67	11.84	11.77

Remarks: Sample ID = CSXT MW-69 (061821) @ 0925

Parameter	Container	No.	Preservative
VOC			
DRO			
GRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	$1^{1/4}$" = 0.06	2" = 0.16	3" = 0.37	~~4" = 0.66~~
	$1^{1/2}$" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/18/21
Well No.: CSXT MW-71 | Replicate No.: — | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 0735 Begin — End 0737

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	18.85
Depth to Water (ft bmp)	12.02
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	6.83
Casing Diameter	4
Gallons in Well	4.44 (3=13.3)
Gallons Purged Prior to Sampling	13.3
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 0719 End 0737

Field Parameters

Color: brown
Odor: none
Appearance: very turbid

	I	1V	2V	3V
pH (s.u.)	10.87	8.42	8.04	7.73
Conductivity (mS/cm) or (µmhos/cm) 1)	1.302	1.317	1.276	1.249
Temperature (°C)	15.96	16.06	16.07	16.06
DO (mg/L)	5.02	4.16	4.66	4.32
ORP (mV)	144.9	119.6	117.9	120.6
Turbidity (NTU)	-	-	-	-
Time	0720	0726	0729	0733
DTW (ft bmp)	12.90	14.57	15.54	16.00

Remarks: sample ID = CSXT MW-71(061821) @ 0735

Parameter	Container	No.	Preservative
VOC			
DRO			
GRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/17/21
Well No.: NPS MW-01 | Replicate No.: ~ | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 1005 Begin: – End: 1003

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	14.01
Depth to Water (ft bmp)	4.65
Depth to Packer (ft bmp)	----
Water Column in Well (ft)	9.36
Casing Diameter	4
Gallons in Well	6.1 (3= 18.3)
Gallons Purged Prior to Sampling	12.0
Pump Intake Setting (ft bmp)	----- –
Packer Pressure (psi)	-----
Pumping Rate (gpm)	-----
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 0951 End 1003

Field Parameters

Color: Brown
Odor: none
Appearance: very turbid

	1	1V	2V	3V
pH (s.u.)	7.36	6.73	6.52	
Conductivity (mS/cm) or (µmhos/cm) 1)	0.510	0.493	0.515	
Temperature (°C)	15.60	13.39	13.29	
DO (mg/L)	2.39	3.11	1.85	
ORP (mV)	69.1	23.0	-24.3	
Turbidity (NTU)	–	–	–	–
Time	0952	0955	1002	
DTW (ft bmp)	7.42	10.41	13.38	

Remarks: Sample ID = NPS MW-01 (061721) @ 1005

Parameter	Container	No.	Preservative
VOC			
GRO			
DRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30012868
Site Location: Brunswick, MD | Date: 6/17/21
Well No.: NPS MW-02 | Replicate No.: – | Weather: clear
Sampling Personnel: AF/DK | Sampling Time: 1135 Begin: – End: 1135

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	21.23
Depth to Water (ft bmp)	3.61
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	17.62
Casing Diameter	4
Gallons in Well	11.4 (3 = 34.4)
Gallons Purged Prior to Sampling	35.0
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	~~Monsoon Pump~~ bailer
Sampling Method	~~Monsoon Pump~~ bailer
Purge Time	Begin 1057 End 1135

Field Parameters

Color	orange
Odor	none
Appearance	turbid

	I	1V	2V	3V
pH (s.u.)	6.78	6.64	6.56	6.52
Conductivity (mS/cm) or (µmhos/cm) 1)	0.649	0.661	0.658	0.663
Temperature (°C)	17.00	15.47	14.94	15.41
DO (mg/L)	2.58	3.05	1.94	2.42
ORP (mV)	-18.2	0.3	-6.7	-9.8
Turbidity (NTU)	–	–	–	–
Time	1058	1108	1120	1130
DTW (ft bmp)	3.95	5.55	6.83	6.85

Remarks: Sample ID: NPS MW-02 (061721) @ 1135

Parameter	Container	No.	Preservative
VOC			
GRO			
DRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project	CSXT Brunswick	Project No.	3004 2868
Site Location	Brunswick, MD	Date	6/17/21
Well No.	NPS MW-04	Replicate No.	-
Weather	clear		
Sampling Personnel	AF/DK	Sampling Time:	1435 Begin -- End 1435

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	13.59
Depth to Water (ft bmp)	4.56
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	9.03
Casing Diameter	4
Gallons in Well	5.8 (3= 17.6)
Gallons Purged Prior to Sampling	17.6
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 1425 End 1433

Field Parameters

Color	Gray			
Odor	Slight			
Appearance	Hazey			
	I	1V	2V	3V
pH (s.u.)	6.75	6.79	6.83	6.87
Conductivity (mS/cm) or (µmhos/cm) 1)	0.324	0.376	0.386	
Temperature (°C)	15.43	14.68	14.5	14.33
DO (mg/L)	-7.8	2.20	2.52	1.57
ORP (mV)	-65.4	-71.8	-74.8	-85.8
Turbidity (NTU)	-	-	-	-
Time	1425	1428	1430	1433
DTW (ft bmp)	5.52	8.10	9.78	11.96

Remarks: Sample ID: NPS MW-04 (061721) @ 1435

Parameter	Container	No.	Preservative
Dro	250mL Amb	2	None
Gro	40mL Clr	2	HCL
VOC	40mL Clr	2	HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 30042868
Site Location: Brunswick, MD | Date: 6/17/21
Well No.: NPS MW-05 | Replicate No.: – | Weather: clear
Sampling Personnel: AF / DR | Sampling Time: 0935 Begin: – End: 0935

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	24.06
Depth to Water (ft bmp)	5.39
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	18.67
Casing Diameter	4
Gallons in Well	12.14 (3= 36.4)
Gallons Purged Prior to Sampling	24.28
Pump Intake Setting (ft bmp)	— / —
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 0908 End 0932

Field Parameters

Color: Brown
Odor: None
Appearance: Hazey

	I	1V	2V	3V
pH (s.u.)	7.15	7.07	7.06	
Conductivity (mS/cm) or (µmhos/cm) 1)	0.441	0.435	0.424	
Temperature (°C)	17.22	15.42	13.73	
DO (mg/L)	3.12	2.49	3.78	
ORP (mV)	111.6	22.4	28.5	
Turbidity (NTU)	–	–	–	–
Time	0914	0922	0930	
DTW (ft bmp)	7.18	16.88	22.47	

Remarks: sample ID - NPS MW-05 (061721) @ 0935

Parameter	Container	No.	Preservative
VOC	40mL Clr		HCL
GRO	40mL Clr		HCL
DRO	250mL Amb		None

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	~~4" = 0.65~~
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No.: 3004 2868

Site Location: Brunswick, MD | Date: 6/17/21

Well No.: NPS MW-13 | Replicate No.: – | Weather: clear

Sampling Personnel: AF/DK | Sampling Time: 0900 Begin: -- End: 0859

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	20.88
Depth to Water (ft bmp)	9.46
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	11.42
Casing Diameter	2
Gallons in Well	1.83 (3= 5.48)
Gallons Purged Prior to Sampling	5.5
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	~~Monsoon Pump~~ bailer
Sampling Method	~~Monsoon Pump~~ bailer
Purge Time	Begin 0838 End

Field Parameters

Color: Brown

Odor: none

Appearance: turbid

	I	1V	2V	3V
pH (s.u.)	7.11	6.94	6.35	6.34
Conductivity (mS/cm) or (µmhos/cm) 1)	0.162	0.211	0.561	0.563
Temperature (°C)	14.36	13.91	13.42	13.57
DO (mg/L)	2.82	2.99	3.78	2.57
ORP (mV)	-15.9	7.8	42.5	57.2
Turbidity (NTU)	–	–	–	–
Time	0839	0845	0849	0855
DTW (ft bmp)	9.88	10.32	10.53	10.47

Remarks: Sample ID NPS MW-13(061721) @ 0900

Parameter	Container	No.	Preservative
VOC			
GRO			
DRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT | Project No.: 30042868
Site Location: Brunswick | Date: 6/17/21
Well No.: NPS-MW-14 | Replicate No.: — | Weather: clear
Sampling Personnel: AF/DIC | Sampling Time: 0825 Begin -- End 0827

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	26.58
Depth to Water (ft bmp)	3.45
Depth to Packer (ft bmp)	----
Water Column in Well (ft)	23.13
Casing Diameter	2
Gallons in Well	3.7 (3= 11.1)
Gallons Purged Prior to Sampling	~~[illegible]~~ 11.1
Pump Intake Setting (ft bmp)	----- —
Packer Pressure (psi)	-----
Pumping Rate (gpm)	-----
Evacuation Method	~~Monsoon Pump~~ bailer
Sampling Method	~~Monsoon Pump~~ bailer
Purge Time	Begin 0755 End 0827

Field Parameters

Color: none
Odor: slight
Appearance: slightly turbid

	I	1V	2V	3V
pH (s.u.)	6.71	6.80	6.87	6.91
Conductivity (mS/cm) or (µmhos/cm) 1)	0.511	0.570	0.579	0.579
Temperature (°C)	20.72	20.14	20.13	19.81
DO (mg/L)	6.7	2.72	3.15	3.27
ORP (mV)	5.1	-27.6	-30.1	-34.9
Turbidity (NTU)	-	-	-	-
Time	0758	0807	0817	0824
DTW (ft bmp)	3.46	4.00	4.20	5.10

Remarks: SAMPLE ID = NPS-MW-14 (061721) @ 0825

Parameter	Container	No.	Preservative
VOC			
GRO			
DRO			

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick
Project No.: 30042868
Site Location: Brunswick, md
Date: 6/17/21
Well No.: NPS MW-16
Replicate No.: –
Weather: clear
Sampling Personnel: AF/DK
Sampling Time: 1335 Begin – End 1335

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	25.22
Depth to Water (ft bmp)	7.47
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	17.75
Casing Diameter	2
Gallons in Well	2.84 (3=8.5)
Gallons Purged Prior to Sampling	8.5
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	~~Monsoon Pump~~ bailer
Sampling Method	~~Monsoon Pump~~ bailer
Purge Time	Begin 13.21 End 1333

Field Parameters

Color: Clear
Odor: None
Appearance: Clear

	I	1V	2V	3V
pH (s.u.)	6.98	6.80	6.82	6.85
Conductivity (mS/cm) or (µmhos/cm) 1)	0.463	0.460	0.460	0.459
Temperature (°C)	16.36	14.92	14.66	14.67
DO (mg/L)	1.62	3.16	2.43	2.61
ORP (mV)	113.1	108.1	115.3	113.0
Turbidity (NTU)	–	–	–	–
Time	13.21	1325	1330	1333
DTW (ft bmp)	7.62	8.20	8.39	8.52

Remarks: sample ID = NPS MW-16 (061721) @ 1335

Parameter	Container	No.	Preservative
VOC	40mL Clr	2	HCL
PRO	250 mL ~~Clear~~ Amb	2	None
GRO	40mL Clr	2	HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS Design & Consultancy for natural and built assets

Water Sampling Log

Project: CSXT Brunswick | Project No. 30042868
Site Location: Brunswick, MD | Date: 6/17/21
Well No.: NPS MW-18 | Replicate No.: – | Weather: clear
Sampling Personnel: AF / DK | Sampling Time: 1205 Begin – End 1205

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	14.54
Depth to Water (ft bmp)	2.08
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	12.46
Casing Diameter	4
Gallons in Well	8.1 (3 = 24.2)
Gallons Purged Prior to Sampling	~20
Pump Intake Setting (ft bmp)	— / –
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Monsoon Pump
Sampling Method	Monsoon Pump
Purge Time	Begin 1144 End 1203

Field Parameters

Color	Brown			
Odor	None			
Appearance	Hazey			
	1	1V	2V	3V (4 gal)
pH (s.u.)	6.56	6.70	6.62	6.61
Conductivity (mS/cm) or (µmhos/cm) 1)	0.666	0.641	0.631	0.634
Temperature (°C)	18.48	14.64	14.38	14.87
DO (mg/L)	2.29	2.60	1.81	2.50
ORP (mV)	4.5	20.9	32.4	51.4
Turbidity (NTU)	–	–	–	–
Time	1145	1150	1155	1200
DTW (ft bmp)	2.36	6.52	12.47	12.81

Remarks: Sample ID = NPS MW-18 (061721) @ 1205

Parameter	Container	No.	Preservative
DRO	250mL Amb		None
GRO	40mL CF		HCL
VOC	40mL CF		HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

WATER LEVEL RECORD FIELD LOG and SAMPLE CHECKLIST

Client: CSX
Location: Brunswick
Location # :
Technician:
Measured with: Interface probe

Project #: 30056695
City: Brunswick
Measuring Point Desc: Top of casing
Project Mgr: Josh Wilson

Date: 6-16-21
State: MD

WELL #	Time	TSD	Pump Intake (feet)	Measured DTP (LPH) (feet)	Measured DTW (feet)	Product Thickness (feet)	Well Diameter (inches)	Remarks (Product Bailed)	Sample Collected (Date and Time)
MW-1	1135	26.31	N/A	—	12.35	—	4	—	
MW-2	1136	26.57	N/A	—	6.93	—	4	—	
MW-3	1302	25.90	N/A	—	14.08	—	4	—	6/18 - 0840
MW-4R	1140	22.95	N/A	—	4.95	—	4	—	
MW-5	1123	23.27	N/A	—	10.54	—	4	—	
MW-6R	0935	14.37	N/A	—	4.17	—	4	—	6/17 - 1510
MW-8	1018	15.95	N/A	—	10.04	—	4	—	
MW-9	1030	16.00	N/A	—	12.10	—	4	—	
MW-20	1050	21.08	N/A	—	6.48	—	4	—	
MW-21	_	_	N/A	_	_	_	_	abandoned	
MW-22	1237	18.60	N/A	—	9.97	—	4	—	6/17-1710 DUP-01
MW-23	1151	14.08	N/A	—	1.56	—	4	—	
MW-24	1209	14.35	N/A	—	4.44	—	4	—	6/18 - 1050
MW-25	1300	19.15	N/A	—	12.00	—	4	—	6/18 - 0815
MW-26	1200	—	N/A	10.08	10.20	0.12	4	—	
MW-27	1213	12.87	N/A	—	7.18	—	4	—	
MW-28		25.47	N/A				4	inaccessible	
MW-29		23.02	N/A				4	inaccessible	
MW-30	1125	23.03	N/A	—	9.55	—	4	—	
MW-31	_	_	N/A	_	_	_	_	abandoned	
MW-32	1336	—	N/A	4.26	4.49	0.23	4	4163 mL	
MW-33	1120	22.44	N/A	—	11.11	—	4	—	
MW-35	1257	24.68	N/A	—	12.42	—	4	—	
MW-37	1310	—	N/A	10.61	11.21	0.60	4	1000 mL	
MW-38	1251	—	N/A	3.91	4.16	0.25	4	550 mL	
MW-39	_	_	N/A	_	_	_	_	abandoned	
MW-41	1346	—	N/A	10.79	12.78	1.99	4	5488 mL	
MW-43	0944	16.06	N/A	—	4.82	—	4	—	6/17 - 1415
MW-49	1329	—	N/A	3.95	4.25	0.30	4	2500 mL	

GENERAL COMMENTS

WATER LEVEL RECORD FIELD LOG and SAMPLE CHECKLIST

Client: CSX
Location: Brunswick
Location # :
Technician:
Measured with: Interface probe

Project #: 30056695
City: Brunswick
Measuring Point Desc: Top of casing
Project Mgr: Josh Wilson

Date:
State: MD

WELL #	Time	TSD	Pump Intake (feet)	Measured DTP (LPH) (feet)	Measured DTW (feet)	Product Thickness (feet)	Well Diameter (inches)	Remarks (Product Bailed)	Sample Collected (Date and Time)
MW-50	–	–	N/A	–	–	–	–	abandoned	
MW-51	1106	24.72	N/A	–	8.68	–	4	–	6/17-1635
MW-52	1109	20.26	N/A	–	7.66	–	4	–	
MW-53	1350	–	N/A	10.84	13.08	2.24	2	2450mL	
MW-54	1343	–	N/A	10.41	11.95	1.54	2	227mL	
MW-55	1348	–	N/A	10.77	12.89	1.12	2	3785mL	
MW-56	1145	–	N/A	9.05	15.67	6.62	2	6400mL	
MW-57	1148	–	N/A	9.42	10.30	0.88	2	250mL	
MW-58	1152	–	N/A	10.45	10.46	0.01	2	–	
MW-59	1332	–	N/A	4.10	4.12	0.02	4	–	
MW-60	1326	–	N/A	9.70	11.32	1.62	4	5375mL	
MW-61	1325	–	N/A	4.28	4.29	0.01	4	–	
MW-62	1322	–	N/A	10.94	11.06	0.12	4	–	
MW-63	1320	–	N/A	11.20	13.50	2.30	4	9000mL	
MW-64	1313	22.29	N/A	–	3.49	–	4	–	6/18-1010
MW-65	1315	–	N/A	4.58	4.59	0.01	4	–	
MW-67	1334	–	N/A	10.38	11.40	1.02	4	2500mL	
MW-68	1317	20.69	N/A	–	3.15	–	4	–	
MW-69	1308	22.51	N/A	–	10.83	–	4	–	6/18-0925
MW-70	1245	24.15	N/A	–	11.48	–	4	–	
MW-71	1248	18.85	N/A	–	12.02	–	4	–	6/18-0735
CS-1	0926	11.35	N/A	–	6.38	–	6	–	
CS-2	0930	11.47	N/A	–	3.96	–	6	–	
CS-3	0932	13.48	N/A	–	4.72	–	6	–	
CS-4	0934	11.11	N/A	–	4.31	–	6	–	
CS-5	0937	10.46	N/A	–	2.07	–	6	–	
EW-1	1212	22.35	N/A	–	7.28	–	6	–	
EW-2	1144	21.40	N/A	–	6.53	–	6	–	
EW-3	1156	–	N/A	9.14	9.44	0.3	6	1000mL	

GENERAL COMMENTS

WATER LEVEL RECORD FIELD LOG and SAMPLE CHECKLIST

Client: CSX
Location: Brunswick
Location # :
Technician:
easured with: Interface probe

Project #: 30056695
City: Brunswick
Measuring Point Desc: Top of casing
Project Mgr: Josh Wilson

Date:
State: MD

WELL #	Time	TSD	Pump Intake (feet)	Measured DTP (LPH) (feet)	Measured DTW (feet)	Product Thickness (feet)	Well Diameter (inches)	Remarks (Product Bailed)	Sample Collected Date and Time
EW-4	1142	22.40	N/A	–	7.54	–	6	–	
EW-5	1155	–	N/A	9.96	10.10	0.14	6	–	
EW-6	1158	24.20	N/A	–	9.79	–	6	–	
EW-7	1202	23.23	N/A	–	9.43	–	6	–	
NPS MW-1	1028	14.01	N/A	–	4.65	–	4	–	6/17-1005
NPS MW-2	0956	21.23	N/A	–	3.61	–	4	–	6/17-1135
NPS MW-3	0912	23.72	N/A	–	3.30	–	4	–	
NPS MW-4	0922	13.59	N/A	–	4.56	–	4	–	6/17-1435
NPS MW-5	1015	24.06	N/A	–	5.39	–	4	–	6/17-0935
NPS MW-10	0950	23.91	N/A	–	4.34	–	2	–	
NPS MW-12	0958	30.00	N/A	–	9.04	–	2	–	
NPS MW-13	0916	20.88	N/A	–	9.46	–	2	–	6/17-0900
NPS MW-14	0904	26.58	N/A	–	3.45	–	2	–	6/17-0825
NPS MW-15	0900	20.03	N/A	–	5.01	–	2	–	
NPS MW-16	0947	25.22	N/A	–	7.47	–	2	–	6/17-1335
NPS MW-17	1002	33.82	N/A	–	9.86	–	2	–	
NPS MW-18	0953	14.54	N/A	–	2.08	–	4	–	6/17-1205

GENERAL COMMENTS

Attachment 4

Lab Report

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-200395-1
Laboratory Sample Delivery Group: ENV00000035683/9415381
Client Project/Site: CSX MD, C&O Canal, Brunswick

For:
ARCADIS U.S., Inc.
7550 Teague Road
Suite 210
Hanover, Maryland 21076

Attn: Joshua Wilson

Authorized for release by:
7/2/2021 6:36:39 PM

Marty Edwards, Client Service Manager
(850)471-6227
Marty.Edwards@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-200395-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-200395-1

Comments
No additional comments.

Receipt
The samples were received on 6/19/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.5º C, 2.2º C and 2.8º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 400-537619 contained Toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-537619 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 400-537619 was outside control limits. Sample matrix interference is suspected.

Method 8260B: The continuing calibration verification (CCV) associated with batch 400-537835 recovered outside acceptance criteria, low biased, for tert-Butyl alcohol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260B: Sample Trip Blank (680-200395-20) contained Toluene between the method detection limit and the reporting limit. Reanalysis was performed with concurring results.

Method 8260B: The continuing calibration verification (CCV) associated with batch 400-537990 recovered above the upper control limit for 2-Hexanone, Methyl Ethyl Ketone, Acetone, and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: Due to the high concentration of 1,1-Dichloroethene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 400-537990 could not be evaluated for accuracy and precision.

Method 8260B: The laboratory control sample (LCS) for analytical batch 400-537990 recovered outside control limits for the following analytes: 2-Hexanone, Acetone, Carbon tetrachloride and Methyl Ethyl Ketone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike duplicate (MSD) recoveries for analytical batch 400-537990 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The method blank for analytical batch 400-537990 contained tert-Butyl alcohol above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method 8015C: The following sample was diluted to bring the concentration of target analytes within the calibration range: CSXT MW-06R (161721) (680-200395-2). Elevated reporting limits (RLs) are provided.

Method 8015C: The matrix spike duplicate (MSD) recoveries for analytical batch 400-536960 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within

Job ID: 680-200395-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

acceptance limits.

Method 8015C: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 400-536960 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015C: Due to the high concentration of C6--C10, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 400-536853 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria and provide prevision data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015C: The continuing calibration verification (CCV) associated with batch 400-537153 recovered above the upper control limit for C10-C28. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-536885 and 400-536885.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-200395-1	CSXT MW-03 (161821)	Water	06/18/21 08:40	06/19/21 10:00	
680-200395-2	CSXT MW-06R (161721)	Water	06/17/21 15:10	06/19/21 10:00	
680-200395-3	CSXT MW-22 (161721)	Water	06/17/21 17:10	06/19/21 10:00	
680-200395-4	CSXT MW-24 (161821)	Water	06/18/21 10:50	06/19/21 10:00	
680-200395-5	CSXT MW-25 (161821)	Water	06/18/21 08:15	06/19/21 10:00	
680-200395-6	CSXT MW-43 (161721)	Water	06/17/21 14:15	06/19/21 10:00	
680-200395-7	CSXT MW-51 (161721)	Water	06/17/21 16:35	06/19/21 10:00	
680-200395-8	CSXT MW-64 (161821)	Water	06/18/21 10:10	06/19/21 10:00	
680-200395-9	CSXT MW-69 (161821)	Water	06/18/21 09:25	06/19/21 10:00	
680-200395-10	CSXT MW-71 (161821)	Water	06/18/21 07:35	06/19/21 10:00	
680-200395-11	NPS MW-01 (061721)	Water	06/17/21 10:05	06/19/21 10:00	
680-200395-12	NPS MW-02 (061721)	Water	06/17/21 11:35	06/19/21 10:00	
680-200395-13	NPS MW-04 (061721)	Water	06/17/21 14:35	06/19/21 10:00	
680-200395-14	NPS MW-05 (061721)	Water	06/17/21 09:35	06/19/21 10:00	
680-200395-15	NPS MW-13 (061721)	Water	06/17/21 09:00	06/19/21 10:00	
680-200395-16	NPS MW-14 (061721)	Water	06/17/21 08:25	06/19/21 10:00	
680-200395-17	NPS MW-16 (061721)	Water	06/17/21 13:35	06/19/21 10:00	
680-200395-18	NPS MW-18 (061721)	Water	06/17/21 12:05	06/19/21 10:00	
680-200395-19	DUP-01 (061721)	Water	06/17/21 12:00	06/19/21 10:00	
680-200395-20	Trip Blank	Water	06/17/21 00:00	06/19/21 10:00	

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015C	Gasoline Range Organics (GRO) (GC)	SW846	TAL PEN
8015C	Diesel Range Organics (DRO) (GC)	EPA	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-03 (161821)

Date Collected: 06/18/21 08:40
Date Received: 06/19/21 10:00

Lab Sample ID: 680-200395-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 18:58	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 18:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 18:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 18:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 18:58	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 18:58	1
Acetone	25	U	25	10	ug/L			07/01/21 18:58	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 18:58	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 18:58	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 18:58	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 18:58	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 18:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 18:58	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 18:58	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 18:58	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 18:58	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 18:58	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 18:58	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 18:58	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 18:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 18:58	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 18:58	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 18:58	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 18:58	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 18:58	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 18:58	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 18:58	1
Toluene	**1.2**		1.0	0.41	ug/L			07/01/21 18:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 18:58	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-03 (161821)

Lab Sample ID: 680-200395-1

Date Collected: 06/18/21 08:40
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 18:58	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 18:58	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*07/01/21 18:58*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*07/01/21 18:58*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 18:58*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**67**	**J**	100	47	ug/L			06/23/21 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*110*		*69 - 147*		*06/23/21 23:10*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	120	U	120	93	ug/L		06/25/21 09:13	06/28/21 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*109*		*21 - 150*	*06/25/21 09:13*	*06/28/21 22:04*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-06R (161721)

Lab Sample ID: 680-200395-2

Date Collected: 06/17/21 15:10
Date Received: 06/19/21 10:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			06/30/21 19:14	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			06/30/21 19:14	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			06/30/21 19:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			06/30/21 19:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			06/30/21 19:14	1
2-Hexanone	25	U	25	3.1	ug/L			06/30/21 19:14	1
Acetone	25	U	25	10	ug/L			06/30/21 19:14	1
Benzene	1.0	U	1.0	0.38	ug/L			06/30/21 19:14	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
Bromoform	5.0	U	5.0	0.71	ug/L			06/30/21 19:14	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
Chloroethane	1.0	U	1.0	0.76	ug/L			06/30/21 19:14	1
Chloroform	1.0	U	1.0	0.60	ug/L			06/30/21 19:14	1
Chloromethane	1.0	U	1.0	0.83	ug/L			06/30/21 19:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			06/30/21 19:14	1
Cyclohexane	**1.7**		1.0	0.50	ug/L			06/30/21 19:14	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			06/30/21 19:14	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			06/30/21 19:14	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			06/30/21 19:14	1
Ethylbenzene	**0.50**	**J**	1.0	0.50	ug/L			06/30/21 19:14	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
Isopropylbenzene	**1.5**		1.0	0.53	ug/L			06/30/21 19:14	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			06/30/21 19:14	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			06/30/21 19:14	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			06/30/21 19:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			06/30/21 19:14	1
Methylcyclohexane	**2.1**		1.0	0.50	ug/L			06/30/21 19:14	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			06/30/21 19:14	1
Naphthalene	1.0	U	1.0	1.0	ug/L			06/30/21 19:14	1
Styrene	1.0	U	1.0	1.0	ug/L			06/30/21 19:14	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			06/30/21 19:14	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			06/30/21 19:14	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			06/30/21 19:14	1
Toluene	**0.57**	**J B**	1.0	0.41	ug/L			06/30/21 19:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			06/30/21 19:14	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-06R (161721)

Date Collected: 06/17/21 15:10
Date Received: 06/19/21 10:00

Lab Sample ID: 680-200395-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			06/30/21 19:14	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/30/21 19:14	1
Xylenes, Total	**2.0**	**J**	10	1.6	ug/L			06/30/21 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*72 - 119*		*06/30/21 19:14*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*06/30/21 19:14*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*06/30/21 19:14*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**4000**		200	94	ug/L			06/24/21 17:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*69 - 147*		*06/24/21 17:00*	*2*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**16000**		140	110	ug/L		06/24/21 10:03	06/24/21 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*88*		*21 - 150*	*06/24/21 10:03*	*06/24/21 23:27*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-22 (161721)

Lab Sample ID: 680-200395-3

Date Collected: 06/17/21 17:10
Date Received: 06/19/21 10:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			06/30/21 19:39	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			06/30/21 19:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			06/30/21 19:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			06/30/21 19:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			06/30/21 19:39	1
2-Hexanone	25	U	25	3.1	ug/L			06/30/21 19:39	1
Acetone	25	U	25	10	ug/L			06/30/21 19:39	1
Benzene	1.0	U	1.0	0.38	ug/L			06/30/21 19:39	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Bromoform	5.0	U	5.0	0.71	ug/L			06/30/21 19:39	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Chloroethane	1.0	U	1.0	0.76	ug/L			06/30/21 19:39	1
Chloroform	1.0	U	1.0	0.60	ug/L			06/30/21 19:39	1
Chloromethane	1.0	U	1.0	0.83	ug/L			06/30/21 19:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			06/30/21 19:39	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			06/30/21 19:39	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			06/30/21 19:39	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			06/30/21 19:39	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Isopropylbenzene	**1.1**		1.0	0.53	ug/L			06/30/21 19:39	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			06/30/21 19:39	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			06/30/21 19:39	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			06/30/21 19:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			06/30/21 19:39	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			06/30/21 19:39	1
Naphthalene	1.0	U	1.0	1.0	ug/L			06/30/21 19:39	1
Styrene	1.0	U	1.0	1.0	ug/L			06/30/21 19:39	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			06/30/21 19:39	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			06/30/21 19:39	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			06/30/21 19:39	1
Toluene	**0.71**	**J B**	1.0	0.41	ug/L			06/30/21 19:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			06/30/21 19:39	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-22 (161721)

Lab Sample ID: 680-200395-3

Date Collected: 06/17/21 17:10
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			06/30/21 19:39	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/30/21 19:39	1
Xylenes, Total	**1.6**	**J**	10	1.6	ug/L			06/30/21 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*06/30/21 19:39*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*06/30/21 19:39*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*06/30/21 19:39*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**1300**		100	47	ug/L			06/23/21 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*110*		*69 - 147*		*06/23/21 21:48*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**11000**		120	99	ug/L		06/24/21 10:03	06/24/21 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*21 - 150*	*06/24/21 10:03*	*06/24/21 23:41*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-24 (161821)

Lab Sample ID: 680-200395-4

Date Collected: 06/18/21 10:50
Date Received: 06/19/21 10:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 19:24	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 19:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 19:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 19:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 19:24	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 19:24	1
Acetone	25	U	25	10	ug/L			07/01/21 19:24	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 19:24	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 19:24	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 19:24	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 19:24	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 19:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 19:24	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 19:24	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 19:24	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 19:24	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 19:24	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 19:24	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 19:24	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 19:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 19:24	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 19:24	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 19:24	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 19:24	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 19:24	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 19:24	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 19:24	1
Toluene	**0.87**	**J**	1.0	0.41	ug/L			07/01/21 19:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 19:24	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-24 (161821)

Lab Sample ID: 680-200395-4

Date Collected: 06/18/21 10:50
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 19:24	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 19:24	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*07/01/21 19:24*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*07/01/21 19:24*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*07/01/21 19:24*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**74**	**J**	100	47	ug/L			06/23/21 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*107*		*69 - 147*		*06/23/21 22:13*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**100**	**J**	130	100	ug/L		06/25/21 09:13	06/28/21 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*113*		*21 - 150*	*06/25/21 09:13*	*06/28/21 22:18*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-25 (161821)

Date Collected: 06/18/21 08:15
Date Received: 06/19/21 10:00

Lab Sample ID: 680-200395-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 19:50	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 19:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 19:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 19:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 19:50	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 19:50	1
Acetone	25	U	25	10	ug/L			07/01/21 19:50	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 19:50	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 19:50	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 19:50	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 19:50	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 19:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 19:50	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 19:50	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 19:50	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 19:50	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 19:50	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 19:50	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 19:50	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 19:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 19:50	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 19:50	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 19:50	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 19:50	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 19:50	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 19:50	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 19:50	1
Toluene	**0.99**	**J**	1.0	0.41	ug/L			07/01/21 19:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 19:50	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1

Client Sample ID: CSXT MW-25 (161821)

Lab Sample ID: 680-200395-5

Date Collected: 06/18/21 08:15

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 19:50	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 19:50	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*07/01/21 19:50*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*07/01/21 19:50*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 19:50*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**160**		100	47	ug/L			06/23/21 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*107*		*69 - 147*		*06/23/21 22:40*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**1600**		120	99	ug/L		06/25/21 09:13	06/28/21 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*117*		*21 - 150*	*06/25/21 09:13*	*06/28/21 22:32*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-43 (161721)

Lab Sample ID: 680-200395-6

Date Collected: 06/17/21 14:15
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 12:00	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 12:00	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 12:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 12:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 12:00	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 12:00	1
Acetone	25	U	25	10	ug/L			07/01/21 12:00	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 12:00	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 12:00	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 12:00	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 12:00	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 12:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 12:00	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 12:00	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 12:00	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 12:00	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 12:00	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 12:00	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 12:00	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 12:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 12:00	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 12:00	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 12:00	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 12:00	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 12:00	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 12:00	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 12:00	1
Toluene	**0.58**	**J**	1.0	0.41	ug/L			07/01/21 12:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 12:00	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-43 (161721)

Lab Sample ID: 680-200395-6

Date Collected: 06/17/21 14:15
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 12:00	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 12:00	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*07/01/21 12:00*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*07/01/21 12:00*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*07/01/21 12:00*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**120**		100	47	ug/L			06/23/21 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*69 - 147*		*06/23/21 17:05*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**750**		120	96	ug/L		06/24/21 07:44	06/24/21 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*95*		*21 - 150*	*06/24/21 07:44*	*06/24/21 20:38*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-51 (161721)

Date Collected: 06/17/21 16:35
Date Received: 06/19/21 10:00

Lab Sample ID: 680-200395-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 12:26	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 12:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 12:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 12:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 12:26	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 12:26	1
Acetone	25	U	25	10	ug/L			07/01/21 12:26	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 12:26	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 12:26	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 12:26	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 12:26	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 12:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 12:26	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 12:26	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 12:26	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 12:26	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 12:26	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 12:26	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 12:26	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 12:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 12:26	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 12:26	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 12:26	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 12:26	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 12:26	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 12:26	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 12:26	1
Toluene	**0.71**	**J**	1.0	0.41	ug/L			07/01/21 12:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 12:26	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1

Client Sample ID: CSXT MW-51 (161721)

Lab Sample ID: 680-200395-7

Date Collected: 06/17/21 16:35

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 12:26	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 12:26	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*07/01/21 12:26*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*07/01/21 12:26*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 12:26*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**48**	**J**	100	47	ug/L			06/23/21 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*69 - 147*		*06/23/21 17:32*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	120	U	120	96	ug/L		06/24/21 07:44	06/24/21 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*91*		*21 - 150*	*06/24/21 07:44*	*06/24/21 20:52*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-64 (161821)

Lab Sample ID: 680-200395-8

Date Collected: 06/18/21 10:10
Date Received: 06/19/21 10:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 20:15	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 20:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 20:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 20:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 20:15	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 20:15	1
Acetone	25	U	25	10	ug/L			07/01/21 20:15	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 20:15	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 20:15	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 20:15	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 20:15	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 20:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 20:15	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 20:15	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 20:15	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 20:15	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 20:15	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 20:15	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 20:15	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 20:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 20:15	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 20:15	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 20:15	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 20:15	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 20:15	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 20:15	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 20:15	1
Toluene	**0.80**	**J**	1.0	0.41	ug/L			07/01/21 20:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 20:15	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-64 (161821)

Lab Sample ID: 680-200395-8

Date Collected: 06/18/21 10:10
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 20:15	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 20:15	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*07/01/21 20:15*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*07/01/21 20:15*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 20:15*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**52**	**J**	100	47	ug/L			06/23/21 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*69 - 147*		*06/23/21 17:58*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**1900**		120	94	ug/L		06/25/21 09:13	06/28/21 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*107*		*21 - 150*	*06/25/21 09:13*	*06/28/21 22:46*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-69 (161821)

Date Collected: 06/18/21 09:25
Date Received: 06/19/21 10:00

Lab Sample ID: 680-200395-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 20:42	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 20:42	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 20:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 20:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 20:42	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 20:42	1
Acetone	25	U	25	10	ug/L			07/01/21 20:42	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 20:42	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 20:42	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 20:42	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 20:42	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 20:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 20:42	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 20:42	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 20:42	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 20:42	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 20:42	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 20:42	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 20:42	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 20:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 20:42	1
Methylcyclohexane	**0.59**	**J**	1.0	0.50	ug/L			07/01/21 20:42	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 20:42	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 20:42	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 20:42	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 20:42	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 20:42	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 20:42	1
Toluene	**0.54**	**J**	1.0	0.41	ug/L			07/01/21 20:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 20:42	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-69 (161821)

Lab Sample ID: 680-200395-9

Date Collected: 06/18/21 09:25
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 20:42	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 20:42	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*07/01/21 20:42*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*07/01/21 20:42*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 20:42*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**980**		100	47	ug/L			06/23/21 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*113*		*69 - 147*		*06/23/21 20:53*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**3600**		120	100	ug/L		06/25/21 09:13	06/28/21 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*21 - 150*	*06/25/21 09:13*	*06/28/21 23:13*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-71 (161821)

Lab Sample ID: 680-200395-10

Date Collected: 06/18/21 07:35
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/02/21 12:42	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/02/21 12:42	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/02/21 12:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/02/21 12:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/02/21 12:42	1
2-Hexanone	25	U *+	25	3.1	ug/L			07/02/21 12:42	1
Acetone	25	U *+	25	10	ug/L			07/02/21 12:42	1
Benzene	1.0	U	1.0	0.38	ug/L			07/02/21 12:42	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/02/21 12:42	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Carbon tetrachloride	1.0	U *+	1.0	0.50	ug/L			07/02/21 12:42	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/02/21 12:42	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/02/21 12:42	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/02/21 12:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/02/21 12:42	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/02/21 12:42	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/02/21 12:42	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/02/21 12:42	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/02/21 12:42	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/02/21 12:42	1
Methyl Ethyl Ketone	25	U *+	25	2.6	ug/L			07/02/21 12:42	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/02/21 12:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/02/21 12:42	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/02/21 12:42	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/02/21 12:42	1
Styrene	1.0	U	1.0	1.0	ug/L			07/02/21 12:42	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/02/21 12:42	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/02/21 12:42	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/02/21 12:42	1
Toluene	**0.83**	**J**	1.0	0.41	ug/L			07/02/21 12:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/02/21 12:42	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-71 (161821)

Lab Sample ID: 680-200395-10

Date Collected: 06/18/21 07:35
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/02/21 12:42	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/02/21 12:42	1
Xylenes, Total	10	U	10	1.6	ug/L			07/02/21 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*07/02/21 12:42*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*07/02/21 12:42*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*07/02/21 12:42*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**91**	**J**	100	47	ug/L			06/23/21 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*69 - 147*		*06/23/21 20:26*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	120	U	120	97	ug/L		06/25/21 09:13	06/28/21 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*21 - 150*	*06/25/21 09:13*	*06/28/21 23:27*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-01 (061721)

Lab Sample ID: 680-200395-11

Date Collected: 06/17/21 10:05
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 12:52	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 12:52	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 12:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 12:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 12:52	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 12:52	1
Acetone	25	U	25	10	ug/L			07/01/21 12:52	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 12:52	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 12:52	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 12:52	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 12:52	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 12:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 12:52	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 12:52	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 12:52	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 12:52	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 12:52	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 12:52	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 12:52	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 12:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 12:52	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 12:52	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 12:52	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 12:52	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 12:52	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 12:52	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 12:52	1
Toluene	**0.47**	**J**	1.0	0.41	ug/L			07/01/21 12:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 12:52	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1

Client Sample ID: NPS MW-01 (061721)

Lab Sample ID: 680-200395-11

Date Collected: 06/17/21 10:05

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 12:52	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 12:52	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*07/01/21 12:52*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*07/01/21 12:52*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*07/01/21 12:52*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	100	U	100	47	ug/L			06/23/21 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*69 - 147*		*06/23/21 22:53*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**100**	**J**	120	96	ug/L		06/24/21 07:44	06/24/21 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*89*		*21 - 150*	*06/24/21 07:44*	*06/24/21 21:06*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-02 (061721)

Lab Sample ID: 680-200395-12

Date Collected: 06/17/21 11:35
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 13:18	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 13:18	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 13:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 13:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 13:18	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 13:18	1
Acetone	25	U	25	10	ug/L			07/01/21 13:18	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 13:18	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 13:18	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 13:18	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 13:18	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 13:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 13:18	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 13:18	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 13:18	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 13:18	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 13:18	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 13:18	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 13:18	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 13:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 13:18	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 13:18	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 13:18	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 13:18	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 13:18	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 13:18	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 13:18	1
Toluene	1.0	U	1.0	0.41	ug/L			07/01/21 13:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 13:18	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-02 (061721)

Lab Sample ID: 680-200395-12

Date Collected: 06/17/21 11:35
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 13:18	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 13:18	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*07/01/21 13:18*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*07/01/21 13:18*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 13:18*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**52**	**J**	100	47	ug/L			06/24/21 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*69 - 147*		*06/24/21 00:01*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**290**		130	100	ug/L		06/24/21 07:44	06/24/21 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*21 - 150*	*06/24/21 07:44*	*06/24/21 21:20*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-04 (061721)

Lab Sample ID: 680-200395-13

Date Collected: 06/17/21 14:35
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 13:44	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 13:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 13:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 13:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 13:44	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 13:44	1
Acetone	25	U	25	10	ug/L			07/01/21 13:44	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 13:44	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 13:44	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 13:44	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 13:44	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 13:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 13:44	1
Cyclohexane	**2.6**		1.0	0.50	ug/L			07/01/21 13:44	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 13:44	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 13:44	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 13:44	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 13:44	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 13:44	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 13:44	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 13:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 13:44	1
Methylcyclohexane	**7.0**		1.0	0.50	ug/L			07/01/21 13:44	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 13:44	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 13:44	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 13:44	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 13:44	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 13:44	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 13:44	1
Toluene	1.0	U	1.0	0.41	ug/L			07/01/21 13:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 13:44	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1

Client Sample ID: NPS MW-04 (061721)

Lab Sample ID: 680-200395-13

Date Collected: 06/17/21 14:35

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 13:44	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 13:44	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*07/01/21 13:44*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*07/01/21 13:44*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*07/01/21 13:44*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**4800**		100	47	ug/L			06/24/21 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*120*		*69 - 147*		*06/24/21 00:27*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**16000**		120	97	ug/L		06/24/21 07:44	06/24/21 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*92*		*21 - 150*	*06/24/21 07:44*	*06/24/21 21:34*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-05 (061721)

Lab Sample ID: 680-200395-14

Date Collected: 06/17/21 09:35
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 14:10	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 14:10	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 14:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 14:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 14:10	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 14:10	1
Acetone	25	U	25	10	ug/L			07/01/21 14:10	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 14:10	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 14:10	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 14:10	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 14:10	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 14:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 14:10	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 14:10	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 14:10	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 14:10	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 14:10	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 14:10	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 14:10	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 14:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 14:10	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 14:10	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 14:10	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 14:10	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 14:10	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 14:10	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 14:10	1
Toluene	**1.3**		1.0	0.41	ug/L			07/01/21 14:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 14:10	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1

Client Sample ID: NPS MW-05 (061721)

Lab Sample ID: 680-200395-14

Date Collected: 06/17/21 09:35

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 14:10	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 14:10	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*07/01/21 14:10*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*07/01/21 14:10*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 14:10*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**52**	**J**	100	47	ug/L			06/24/21 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*69 - 147*		*06/24/21 00:53*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**250**		120	99	ug/L		06/24/21 07:44	06/24/21 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*21 - 150*	*06/24/21 07:44*	*06/24/21 21:49*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-13 (061721)

Lab Sample ID: 680-200395-15

Date Collected: 06/17/21 09:00
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 14:36	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 14:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 14:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 14:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 14:36	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 14:36	1
Acetone	25	U	25	10	ug/L			07/01/21 14:36	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 14:36	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 14:36	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 14:36	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 14:36	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 14:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 14:36	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 14:36	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 14:36	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 14:36	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 14:36	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 14:36	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 14:36	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 14:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 14:36	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 14:36	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 14:36	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 14:36	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 14:36	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 14:36	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 14:36	1
Toluene	**0.69**	**J**	1.0	0.41	ug/L			07/01/21 14:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 14:36	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-13 (061721)

Lab Sample ID: 680-200395-15

Date Collected: 06/17/21 09:00
Date Received: 06/19/21 10:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 14:36	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 14:36	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*07/01/21 14:36*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*07/01/21 14:36*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 14:36*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**49**	**J**	100	47	ug/L			06/24/21 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*69 - 147*		*06/24/21 01:20*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**220**		120	95	ug/L		06/24/21 07:44	06/24/21 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*21 - 150*	*06/24/21 07:44*	*06/24/21 22:03*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-14 (061721)

Lab Sample ID: 680-200395-16

Date Collected: 06/17/21 08:25
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 15:02	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 15:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 15:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 15:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 15:02	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 15:02	1
Acetone	25	U	25	10	ug/L			07/01/21 15:02	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 15:02	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 15:02	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 15:02	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 15:02	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 15:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 15:02	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 15:02	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 15:02	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 15:02	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 15:02	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 15:02	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 15:02	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 15:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 15:02	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 15:02	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 15:02	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 15:02	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 15:02	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 15:02	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 15:02	1
Toluene	**0.69**	**J**	1.0	0.41	ug/L			07/01/21 15:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 15:02	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-14 (061721)

Lab Sample ID: 680-200395-16

Date Collected: 06/17/21 08:25
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 15:02	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 15:02	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*07/01/21 15:02*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*07/01/21 15:02*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*07/01/21 15:02*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**67**	**J**	100	47	ug/L			06/24/21 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*69 - 147*		*06/24/21 01:46*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	120	U	120	98	ug/L		06/24/21 07:44	06/24/21 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*21 - 150*	*06/24/21 07:44*	*06/24/21 22:31*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-16 (061721)

Lab Sample ID: 680-200395-17

Date Collected: 06/17/21 13:35
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 15:28	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 15:28	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 15:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 15:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 15:28	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 15:28	1
Acetone	25	U	25	10	ug/L			07/01/21 15:28	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 15:28	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 15:28	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 15:28	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 15:28	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 15:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 15:28	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 15:28	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 15:28	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 15:28	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 15:28	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 15:28	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 15:28	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 15:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 15:28	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 15:28	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 15:28	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 15:28	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 15:28	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 15:28	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 15:28	1
Toluene	**0.51**	**J**	1.0	0.41	ug/L			07/01/21 15:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 15:28	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1

Client Sample ID: NPS MW-16 (061721)

Lab Sample ID: 680-200395-17

Date Collected: 06/17/21 13:35

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 15:28	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 15:28	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*07/01/21 15:28*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*07/01/21 15:28*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 15:28*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	100	U	100	47	ug/L			06/23/21 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*69 - 147*		*06/23/21 23:21*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**350**		120	98	ug/L		06/24/21 07:44	06/24/21 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*86*		*21 - 150*	*06/24/21 07:44*	*06/24/21 22:45*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-18 (061721)

Lab Sample ID: 680-200395-18

Date Collected: 06/17/21 12:05
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 15:54	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 15:54	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 15:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 15:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 15:54	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 15:54	1
Acetone	25	U	25	10	ug/L			07/01/21 15:54	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 15:54	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 15:54	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 15:54	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 15:54	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 15:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 15:54	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 15:54	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 15:54	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 15:54	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 15:54	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 15:54	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 15:54	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 15:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 15:54	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 15:54	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 15:54	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 15:54	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 15:54	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 15:54	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 15:54	1
Toluene	**1.2**		1.0	0.41	ug/L			07/01/21 15:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 15:54	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1

Client Sample ID: NPS MW-18 (061721)

Lab Sample ID: 680-200395-18

Date Collected: 06/17/21 12:05

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 15:54	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 15:54	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*07/01/21 15:54*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*07/01/21 15:54*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*07/01/21 15:54*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	100	U	100	47	ug/L			06/23/21 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*69 - 147*		*06/23/21 23:49*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**220**		150	120	ug/L		06/24/21 07:44	06/24/21 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*21 - 150*	*06/24/21 07:44*	*06/24/21 22:59*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: DUP-01 (061721)

Lab Sample ID: 680-200395-19

Date Collected: 06/17/21 12:00
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 16:20	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 16:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 16:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 16:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 16:20	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 16:20	1
Acetone	25	U	25	10	ug/L			07/01/21 16:20	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 16:20	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 16:20	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 16:20	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 16:20	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 16:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 16:20	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 16:20	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 16:20	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 16:20	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Isopropylbenzene	**0.99**	**J**	1.0	0.53	ug/L			07/01/21 16:20	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 16:20	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 16:20	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 16:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 16:20	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 16:20	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 16:20	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 16:20	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 16:20	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 16:20	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 16:20	1
Toluene	**0.92**	**J**	1.0	0.41	ug/L			07/01/21 16:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 16:20	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: DUP-01 (061721)

Lab Sample ID: 680-200395-19

Date Collected: 06/17/21 12:00
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 16:20	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 16:20	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*07/01/21 16:20*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*07/01/21 16:20*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*07/01/21 16:20*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	**1200**		100	47	ug/L			06/24/21 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*107*		*69 - 147*		*06/24/21 00:17*	*1*

Method: 8015C - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**9200**		130	110	ug/L		06/24/21 07:44	06/24/21 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*78*		*21 - 150*	*06/24/21 07:44*	*06/24/21 23:13*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: Trip Blank

Lab Sample ID: 680-200395-20

Date Collected: 06/17/21 00:00
Matrix: Water
Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 16:47	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 16:47	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 16:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 16:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 16:47	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 16:47	1
Acetone	25	U	25	10	ug/L			07/01/21 16:47	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 16:47	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 16:47	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 16:47	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 16:47	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 16:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 16:47	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 16:47	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 16:47	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 16:47	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 16:47	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 16:47	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 16:47	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 16:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 16:47	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 16:47	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 16:47	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 16:47	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 16:47	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 16:47	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 16:47	1
Toluene	**0.44**	**J**	1.0	0.41	ug/L			07/01/21 16:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 16:47	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-200395-20

Date Collected: 06/17/21 00:00

Matrix: Water

Date Received: 06/19/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 16:47	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 16:47	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*07/01/21 16:47*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*07/01/21 16:47*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 16:47*	*1*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	100	U	100	47	ug/L			06/24/21 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*69 - 147*		*06/24/21 01:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-537619/4
Matrix: Water
Analysis Batch: 537619

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			06/30/21 09:10	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			06/30/21 09:10	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			06/30/21 09:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			06/30/21 09:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			06/30/21 09:10	1
2-Hexanone	25	U	25	3.1	ug/L			06/30/21 09:10	1
Acetone	25	U	25	10	ug/L			06/30/21 09:10	1
Benzene	1.0	U	1.0	0.38	ug/L			06/30/21 09:10	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Bromoform	5.0	U	5.0	0.71	ug/L			06/30/21 09:10	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Chloroethane	1.0	U	1.0	0.76	ug/L			06/30/21 09:10	1
Chloroform	1.0	U	1.0	0.60	ug/L			06/30/21 09:10	1
Chloromethane	1.0	U	1.0	0.83	ug/L			06/30/21 09:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			06/30/21 09:10	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			06/30/21 09:10	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			06/30/21 09:10	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			06/30/21 09:10	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			06/30/21 09:10	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			06/30/21 09:10	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			06/30/21 09:10	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			06/30/21 09:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			06/30/21 09:10	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			06/30/21 09:10	1
Naphthalene	1.0	U	1.0	1.0	ug/L			06/30/21 09:10	1
Styrene	1.0	U	1.0	1.0	ug/L			06/30/21 09:10	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			06/30/21 09:10	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			06/30/21 09:10	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			06/30/21 09:10	1
Toluene	0.834	J	1.0	0.41	ug/L			06/30/21 09:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			06/30/21 09:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-537619/4
Matrix: Water
Analysis Batch: 537619

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			06/30/21 09:10	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/30/21 09:10	1
Xylenes, Total	10	U	10	1.6	ug/L			06/30/21 09:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*72 - 119*		*06/30/21 09:10*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*06/30/21 09:10*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*06/30/21 09:10*	*1*

Lab Sample ID: LCS 400-537619/1002
Matrix: Water
Analysis Batch: 537619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	68 - 130
1,1,2,2-Tetrachloroethane	50.0	36.9		ug/L		74	70 - 131
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	48.5		ug/L		97	60 - 139
1,1,2-Trichloroethane	50.0	39.8		ug/L		80	70 - 130
1,1-Dichloroethane	50.0	45.8		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	44.9		ug/L		90	63 - 134
1,2,4-Trichlorobenzene	50.0	43.3		ug/L		87	60 - 140
1,2-Dibromo-3-Chloropropane	50.0	43.4		ug/L		87	54 - 135
1,2-Dichlorobenzene	50.0	40.1		ug/L		80	67 - 130
1,2-Dichloroethane	50.0	53.9		ug/L		108	69 - 130
1,2-Dichloropropane	50.0	43.7		ug/L		87	70 - 130
1,3-Dichlorobenzene	50.0	43.1		ug/L		86	70 - 130
1,4-Dichlorobenzene	50.0	41.0		ug/L		82	70 - 130
2-Hexanone	200	190		ug/L		95	65 - 137
Acetone	200	210		ug/L		105	43 - 160
Benzene	50.0	40.6		ug/L		81	70 - 130
Bromodichloromethane	50.0	47.4		ug/L		95	67 - 133
Bromoform	50.0	49.4		ug/L		99	57 - 140
Carbon disulfide	50.0	40.7		ug/L		81	61 - 137
Carbon tetrachloride	50.0	60.4		ug/L		121	61 - 137
Chlorobenzene	50.0	42.8		ug/L		86	70 - 130
Chloroethane	50.0	44.0		ug/L		88	55 - 141
Chloroform	50.0	43.7		ug/L		87	69 - 130
Chloromethane	50.0	55.3		ug/L		111	58 - 137
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	68 - 130
cis-1,3-Dichloropropene	50.0	44.0		ug/L		88	69 - 132
Cyclohexane	50.0	40.7		ug/L		81	70 - 130
Dibromochloromethane	50.0	49.5		ug/L		99	67 - 135
Dichlorodifluoromethane	50.0	55.5		ug/L		111	41 - 146
Diisopropyl ether	50.0	49.5		ug/L		99	64 - 132
Ethyl tert-butyl ether	50.0	43.7		ug/L		87	55 - 133
Ethylbenzene	50.0	44.9		ug/L		90	70 - 130
Ethylene Dibromide	50.0	41.5		ug/L		83	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-537619/1002
Matrix: Water
Analysis Batch: 537619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	47.4		ug/L		95	70 - 130
Methyl acetate	100	92.1		ug/L		92	45 - 159
Methyl Ethyl Ketone	200	143		ug/L		72	61 - 145
methyl isobutyl ketone	200	185		ug/L		93	69 - 138
Methyl tert-butyl ether	50.0	43.0		ug/L		86	66 - 130
Methylcyclohexane	50.0	41.3		ug/L		83	70 - 130
Methylene Chloride	50.0	36.5		ug/L		73	66 - 135
Naphthalene	50.0	39.8		ug/L		80	47 - 149
Styrene	50.0	44.7		ug/L		89	70 - 130
Tert-amyl methyl ether	50.0	40.6		ug/L		81	52 - 132
tert-Butyl alcohol	500	526		ug/L		105	46 - 143
Tetrachloroethene	50.0	41.1		ug/L		82	65 - 130
Toluene	50.0	41.6		ug/L		83	70 - 130
trans-1,2-Dichloroethene	50.0	40.0		ug/L		80	70 - 130
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	63 - 130
Trichloroethene	50.0	44.8		ug/L		90	70 - 130
Trichlorofluoromethane	50.0	61.0		ug/L		122	65 - 138
Vinyl chloride	50.0	59.6		ug/L		119	59 - 136
Xylenes, Total	100	93.7		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*72 - 119*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: MB 400-537835/6
Matrix: Water
Analysis Batch: 537835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/01/21 11:34	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/01/21 11:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/01/21 11:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/01/21 11:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/01/21 11:34	1
2-Hexanone	25	U	25	3.1	ug/L			07/01/21 11:34	1
Acetone	25	U	25	10	ug/L			07/01/21 11:34	1
Benzene	1.0	U	1.0	0.38	ug/L			07/01/21 11:34	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/01/21 11:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-537835/6
Matrix: Water
Analysis Batch: 537835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/01/21 11:34	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/01/21 11:34	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/01/21 11:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 11:34	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/01/21 11:34	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/01/21 11:34	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/01/21 11:34	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/01/21 11:34	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/01/21 11:34	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/01/21 11:34	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/01/21 11:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/01/21 11:34	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/01/21 11:34	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/01/21 11:34	1
Styrene	1.0	U	1.0	1.0	ug/L			07/01/21 11:34	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/01/21 11:34	1
tert-Butyl alcohol	10	U	10	4.9	ug/L			07/01/21 11:34	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/01/21 11:34	1
Toluene	1.0	U	1.0	0.41	ug/L			07/01/21 11:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/01/21 11:34	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/01/21 11:34	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/01/21 11:34	1
Xylenes, Total	10	U	10	1.6	ug/L			07/01/21 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*07/01/21 11:34*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*07/01/21 11:34*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*07/01/21 11:34*	*1*

Lab Sample ID: LCS 400-537835/1003
Matrix: Water
Analysis Batch: 537835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	40.5		ug/L		81	68 - 130
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	70 - 131
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	43.9		ug/L		88	60 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-537835/1003
Matrix: Water
Analysis Batch: 537835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	45.4		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	41.0		ug/L		82	70 - 130
1,1-Dichloroethene	50.0	42.4		ug/L		85	63 - 134
1,2,4-Trichlorobenzene	50.0	50.7		ug/L		101	60 - 140
1,2-Dibromo-3-Chloropropane	50.0	43.1		ug/L		86	54 - 135
1,2-Dichlorobenzene	50.0	51.0		ug/L		102	67 - 130
1,2-Dichloroethane	50.0	40.6		ug/L		81	69 - 130
1,2-Dichloropropane	50.0	41.3		ug/L		83	70 - 130
1,3-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130
2-Hexanone	200	165		ug/L		82	65 - 137
Acetone	200	185		ug/L		92	43 - 160
Benzene	50.0	43.1		ug/L		86	70 - 130
Bromodichloromethane	50.0	41.7		ug/L		83	67 - 133
Bromoform	50.0	41.0		ug/L		82	57 - 140
Carbon disulfide	50.0	41.5		ug/L		83	61 - 137
Carbon tetrachloride	50.0	39.1		ug/L		78	61 - 137
Chlorobenzene	50.0	48.9		ug/L		98	70 - 130
Chloroethane	50.0	44.9		ug/L		90	55 - 141
Chloroform	50.0	43.1		ug/L		86	69 - 130
Chloromethane	50.0	40.0		ug/L		80	58 - 137
cis-1,2-Dichloroethene	50.0	39.4		ug/L		79	68 - 130
cis-1,3-Dichloropropene	50.0	39.3		ug/L		79	69 - 132
Cyclohexane	50.0	42.3		ug/L		85	70 - 130
Dibromochloromethane	50.0	43.4		ug/L		87	67 - 135
Dichlorodifluoromethane	50.0	39.4		ug/L		79	41 - 146
Diisopropyl ether	50.0	42.8		ug/L		86	64 - 132
Ethyl tert-butyl ether	50.0	40.5		ug/L		81	55 - 133
Ethylbenzene	50.0	48.5		ug/L		97	70 - 130
Ethylene Dibromide	50.0	46.1		ug/L		92	70 - 130
Isopropylbenzene	50.0	49.7		ug/L		99	70 - 130
Methyl acetate	100	75.6		ug/L		76	45 - 159
Methyl Ethyl Ketone	200	183		ug/L		91	61 - 145
methyl isobutyl ketone	200	154		ug/L		77	69 - 138
Methyl tert-butyl ether	50.0	37.1		ug/L		74	66 - 130
Methylcyclohexane	50.0	43.4		ug/L		87	70 - 130
Methylene Chloride	50.0	44.4		ug/L		89	66 - 135
Naphthalene	50.0	46.7		ug/L		93	47 - 149
Styrene	50.0	49.0		ug/L		98	70 - 130
Tert-amyl methyl ether	50.0	39.8		ug/L		80	52 - 132
tert-Butyl alcohol	500	233		ug/L		47	46 - 143
Tetrachloroethene	50.0	47.6		ug/L		95	65 - 130
Toluene	50.0	46.3		ug/L		93	70 - 130
trans-1,2-Dichloroethene	50.0	43.4		ug/L		87	70 - 130
trans-1,3-Dichloropropene	50.0	38.8		ug/L		78	63 - 130
Trichloroethene	50.0	46.6		ug/L		93	70 - 130
Trichlorofluoromethane	50.0	48.4		ug/L		97	65 - 138
Vinyl chloride	50.0	42.4		ug/L		85	59 - 136
Xylenes, Total	100	95.9		ug/L		96	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		72 - 119
Dibromofluoromethane	100		75 - 126
Toluene-d8 (Surr)	102		64 - 132

Lab Sample ID: 680-200395-6 MS
Matrix: Water
Analysis Batch: 537835

Client Sample ID: CSXT MW-43 (161721)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	50.0	35.6		ug/L		71	57 - 142
1,1,2,2-Tetrachloroethane	1.0	U	50.0	48.5		ug/L		97	66 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	50.0	46.2		ug/L		92	55 - 150
1,1,2-Trichloroethane	5.0	U	50.0	46.4		ug/L		93	66 - 131
1,1-Dichloroethane	1.0	U	50.0	39.5		ug/L		79	61 - 144
1,1-Dichloroethene	1.0	U	50.0	43.1		ug/L		86	54 - 147
1,2,4-Trichlorobenzene	1.0	U	50.0	34.7		ug/L		69	39 - 148
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	45.0		ug/L		90	45 - 135
1,2-Dichlorobenzene	1.0	U	50.0	37.1		ug/L		74	52 - 137
1,2-Dichloroethane	1.0	U	50.0	39.7		ug/L		79	60 - 141
1,2-Dichloropropane	1.0	U	50.0	38.9		ug/L		78	66 - 137
1,3-Dichlorobenzene	1.0	U	50.0	34.2		ug/L		68	54 - 135
1,4-Dichlorobenzene	1.0	U	50.0	34.1		ug/L		68	53 - 135
2-Hexanone	25	U	200	165		ug/L		83	65 - 140
Acetone	25	U	200	150		ug/L		75	43 - 150
Benzene	1.0	U	50.0	39.9		ug/L		80	56 - 142
Bromodichloromethane	1.0	U	50.0	36.7		ug/L		73	59 - 143
Bromoform	5.0	U	50.0	37.5		ug/L		75	50 - 140
Carbon disulfide	1.0	U	50.0	39.0		ug/L		78	48 - 150
Carbon tetrachloride	1.0	U	50.0	31.3		ug/L		63	55 - 145
Chlorobenzene	1.0	U	50.0	37.9		ug/L		76	64 - 130
Chloroethane	1.0	U	50.0	38.2		ug/L		76	50 - 150
Chloroform	1.0	U	50.0	40.9		ug/L		82	60 - 141
Chloromethane	1.0	U	50.0	32.7		ug/L		65	49 - 148
cis-1,2-Dichloroethene	1.0	U	50.0	37.5		ug/L		75	59 - 143
cis-1,3-Dichloropropene	5.0	U	50.0	34.4		ug/L		69	57 - 140
Cyclohexane	1.0	U	50.0	40.0		ug/L		80	58 - 141
Dibromochloromethane	1.0	U	50.0	39.7		ug/L		79	56 - 143
Dichlorodifluoromethane	1.0	U	50.0	33.7		ug/L		67	16 - 150
Diisopropyl ether	1.0	U	50.0	39.5		ug/L		79	60 - 144
Ethyl tert-butyl ether	1.0	U	50.0	39.5		ug/L		79	49 - 137
Ethylbenzene	1.0	U	50.0	35.0		ug/L		70	58 - 131
Ethylene Dibromide	1.0	U	50.0	46.0		ug/L		92	64 - 132
Isopropylbenzene	1.0	U	50.0	33.2		ug/L		66	56 - 133
Methyl acetate	5.0	U	100	79.2		ug/L		79	21 - 150
Methyl Ethyl Ketone	25	U	200	182		ug/L		91	55 - 150
methyl isobutyl ketone	25	U	200	164		ug/L		82	63 - 146
Methyl tert-butyl ether	1.0	U	50.0	41.1		ug/L		82	59 - 137
Methylcyclohexane	1.0	U	50.0	39.1		ug/L		78	62 - 141
Methylene Chloride	5.0	U	50.0	43.8		ug/L		88	60 - 146
Naphthalene	1.0	U	50.0	44.4		ug/L		89	25 - 150
Styrene	1.0	U	50.0	37.2		ug/L		74	58 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-200395-6 MS
Matrix: Water
Analysis Batch: 537835

Client Sample ID: CSXT MW-43 (161721)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-amyl methyl ether	1.0	U	50.0	38.4		ug/L		77	43 - 140
tert-Butyl alcohol	10	U	500	287		ug/L		57	31 - 150
Tetrachloroethene	1.0	U	50.0	36.1		ug/L		72	52 - 133
Toluene	0.58	J	50.0	40.0		ug/L		79	65 - 130
trans-1,2-Dichloroethene	1.0	U	50.0	41.4		ug/L		83	61 - 143
trans-1,3-Dichloropropene	5.0	U	50.0	33.6		ug/L		67	53 - 133
Trichloroethene	1.0	U	50.0	40.1		ug/L		80	64 - 136
Trichlorofluoromethane	1.0	U	50.0	42.0		ug/L		84	54 - 150
Vinyl chloride	1.0	U	50.0	36.9		ug/L		74	46 - 150
Xylenes, Total	10	U	100	71.0		ug/L		71	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*102*		*64 - 132*

Lab Sample ID: 680-200395-6 MSD
Matrix: Water
Analysis Batch: 537835

Client Sample ID: CSXT MW-43 (161721)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	50.0	37.7		ug/L		75	57 - 142	6	30
1,1,2,2-Tetrachloroethane	1.0	U	50.0	51.0		ug/L		102	66 - 135	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	50.0	47.6		ug/L		95	55 - 150	3	30
1,1,2-Trichloroethane	5.0	U	50.0	46.4		ug/L		93	66 - 131	0	30
1,1-Dichloroethane	1.0	U	50.0	41.0		ug/L		82	61 - 144	4	30
1,1-Dichloroethene	1.0	U	50.0	43.9		ug/L		88	54 - 147	2	30
1,2,4-Trichlorobenzene	1.0	U	50.0	35.1		ug/L		70	39 - 148	1	30
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	46.8		ug/L		94	45 - 135	4	30
1,2-Dichlorobenzene	1.0	U	50.0	37.7		ug/L		75	52 - 137	2	30
1,2-Dichloroethane	1.0	U	50.0	40.0		ug/L		80	60 - 141	1	30
1,2-Dichloropropane	1.0	U	50.0	40.1		ug/L		80	66 - 137	3	30
1,3-Dichlorobenzene	1.0	U	50.0	35.0		ug/L		70	54 - 135	2	30
1,4-Dichlorobenzene	1.0	U	50.0	34.6		ug/L		69	53 - 135	1	30
2-Hexanone	25	U	200	166		ug/L		83	65 - 140	0	30
Acetone	25	U	200	153		ug/L		77	43 - 150	2	30
Benzene	1.0	U	50.0	40.9		ug/L		82	56 - 142	3	30
Bromodichloromethane	1.0	U	50.0	39.2		ug/L		78	59 - 143	6	30
Bromoform	5.0	U	50.0	41.3		ug/L		83	50 - 140	10	30
Carbon disulfide	1.0	U	50.0	39.7		ug/L		79	48 - 150	2	30
Carbon tetrachloride	1.0	U	50.0	34.2		ug/L		68	55 - 145	9	30
Chlorobenzene	1.0	U	50.0	38.3		ug/L		77	64 - 130	1	30
Chloroethane	1.0	U	50.0	42.8		ug/L		86	50 - 150	11	30
Chloroform	1.0	U	50.0	42.2		ug/L		84	60 - 141	3	30
Chloromethane	1.0	U	50.0	34.8		ug/L		70	49 - 148	6	31
cis-1,2-Dichloroethene	1.0	U	50.0	38.7		ug/L		77	59 - 143	3	30
cis-1,3-Dichloropropene	5.0	U	50.0	36.2		ug/L		72	57 - 140	5	30
Cyclohexane	1.0	U	50.0	41.6		ug/L		83	58 - 141	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-200395-6 MSD
Matrix: Water
Analysis Batch: 537835

Client Sample ID: CSXT MW-43 (161721)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	1.0	U	50.0	41.5		ug/L		83	56 - 143	4	30
Dichlorodifluoromethane	1.0	U	50.0	36.1		ug/L		72	16 - 150	7	31
Diisopropyl ether	1.0	U	50.0	40.3		ug/L		81	60 - 144	2	30
Ethyl tert-butyl ether	1.0	U	50.0	42.4		ug/L		85	49 - 137	7	30
Ethylbenzene	1.0	U	50.0	35.0		ug/L		70	58 - 131	0	30
Ethylene Dibromide	1.0	U	50.0	46.7		ug/L		93	64 - 132	2	30
Isopropylbenzene	1.0	U	50.0	32.3		ug/L		65	56 - 133	3	30
Methyl acetate	5.0	U	100	79.4		ug/L		79	21 - 150	0	30
Methyl Ethyl Ketone	25	U	200	184		ug/L		92	55 - 150	1	30
methyl isobutyl ketone	25	U	200	166		ug/L		83	63 - 146	1	30
Methyl tert-butyl ether	1.0	U	50.0	42.6		ug/L		85	59 - 137	4	30
Methylcyclohexane	1.0	U	50.0	39.9		ug/L		80	62 - 141	2	30
Methylene Chloride	5.0	U	50.0	45.5		ug/L		91	60 - 146	4	32
Naphthalene	1.0	U	50.0	44.8		ug/L		90	25 - 150	1	30
Styrene	1.0	U	50.0	37.1		ug/L		74	58 - 131	0	30
Tert-amyl methyl ether	1.0	U	50.0	39.8		ug/L		80	43 - 140	4	30
tert-Butyl alcohol	10	U	500	320		ug/L		64	31 - 150	11	42
Tetrachloroethene	1.0	U	50.0	35.6		ug/L		71	52 - 133	1	30
Toluene	0.58	J	50.0	40.0		ug/L		79	65 - 130	0	30
trans-1,2-Dichloroethene	1.0	U	50.0	42.4		ug/L		85	61 - 143	2	30
trans-1,3-Dichloropropene	5.0	U	50.0	35.1		ug/L		70	53 - 133	4	30
Trichloroethene	1.0	U	50.0	41.1		ug/L		82	64 - 136	2	30
Trichlorofluoromethane	1.0	U	50.0	44.8		ug/L		90	54 - 150	6	30
Vinyl chloride	1.0	U	50.0	38.9		ug/L		78	46 - 150	5	30
Xylenes, Total	10	U	100	70.3		ug/L		70	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*72 - 119*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*102*		*64 - 132*

Lab Sample ID: MB 400-537990/4
Matrix: Water
Analysis Batch: 537990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,1,2-Trichloroethane	5.0	U	5.0	0.50	ug/L			07/02/21 10:11	1
1,1-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,1-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.82	ug/L			07/02/21 10:11	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.5	ug/L			07/02/21 10:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,2-Dichloropropane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.54	ug/L			07/02/21 10:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-537990/4
Matrix: Water
Analysis Batch: 537990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	0.64	ug/L			07/02/21 10:11	1
2-Hexanone	25	U	25	3.1	ug/L			07/02/21 10:11	1
Acetone	25	U	25	10	ug/L			07/02/21 10:11	1
Benzene	1.0	U	1.0	0.38	ug/L			07/02/21 10:11	1
Bromodichloromethane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Bromoform	5.0	U	5.0	0.71	ug/L			07/02/21 10:11	1
Carbon disulfide	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Chlorobenzene	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Chloroethane	1.0	U	1.0	0.76	ug/L			07/02/21 10:11	1
Chloroform	1.0	U	1.0	0.60	ug/L			07/02/21 10:11	1
Chloromethane	1.0	U	1.0	0.83	ug/L			07/02/21 10:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/02/21 10:11	1
Cyclohexane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Dibromochloromethane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.85	ug/L			07/02/21 10:11	1
Diisopropyl ether	1.0	U	1.0	0.70	ug/L			07/02/21 10:11	1
Ethyl tert-butyl ether	1.0	U	1.0	0.68	ug/L			07/02/21 10:11	1
Ethylbenzene	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Isopropylbenzene	1.0	U	1.0	0.53	ug/L			07/02/21 10:11	1
Methyl acetate	5.0	U	5.0	2.5	ug/L			07/02/21 10:11	1
Methyl Ethyl Ketone	25	U	25	2.6	ug/L			07/02/21 10:11	1
methyl isobutyl ketone	25	U	25	1.8	ug/L			07/02/21 10:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.74	ug/L			07/02/21 10:11	1
Methylcyclohexane	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Methylene Chloride	5.0	U	5.0	3.0	ug/L			07/02/21 10:11	1
Naphthalene	1.0	U	1.0	1.0	ug/L			07/02/21 10:11	1
Styrene	1.0	U	1.0	1.0	ug/L			07/02/21 10:11	1
Tert-amyl methyl ether	1.0	U	1.0	0.60	ug/L			07/02/21 10:11	1
tert-Butyl alcohol	6.77	J	10	4.9	ug/L			07/02/21 10:11	1
Tetrachloroethene	1.0	U	1.0	0.58	ug/L			07/02/21 10:11	1
Toluene	1.0	U	1.0	0.41	ug/L			07/02/21 10:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.50	ug/L			07/02/21 10:11	1
Trichloroethene	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Trichlorofluoromethane	1.0	U	1.0	0.52	ug/L			07/02/21 10:11	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			07/02/21 10:11	1
Xylenes, Total	10	U	10	1.6	ug/L			07/02/21 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*07/02/21 10:11*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*07/02/21 10:11*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*07/02/21 10:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-537990/1002
Matrix: Water
Analysis Batch: 537990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	61.8		ug/L		124	68 - 130
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	70 - 131
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	64.7		ug/L		129	60 - 139
1,1,2-Trichloroethane	50.0	49.0		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	58.0		ug/L		116	70 - 130
1,1-Dichloroethene	50.0	58.3		ug/L		117	63 - 134
1,2,4-Trichlorobenzene	50.0	50.8		ug/L		102	60 - 140
1,2-Dibromo-3-Chloropropane	50.0	50.0		ug/L		100	54 - 135
1,2-Dichlorobenzene	50.0	47.6		ug/L		95	67 - 130
1,2-Dichloroethane	50.0	60.6		ug/L		121	69 - 130
1,2-Dichloropropane	50.0	55.2		ug/L		110	70 - 130
1,3-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 130
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
2-Hexanone	200	310	*+	ug/L		155	65 - 137
Acetone	200	543	*+	ug/L		271	43 - 160
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromodichloromethane	50.0	57.3		ug/L		115	67 - 133
Bromoform	50.0	63.1		ug/L		126	57 - 140
Carbon disulfide	50.0	54.6		ug/L		109	61 - 137
Carbon tetrachloride	50.0	71.2	*+	ug/L		142	61 - 137
Chlorobenzene	50.0	52.3		ug/L		105	70 - 130
Chloroethane	50.0	47.5		ug/L		95	55 - 141
Chloroform	50.0	54.5		ug/L		109	69 - 130
Chloromethane	50.0	54.3		ug/L		109	58 - 137
cis-1,2-Dichloroethene	50.0	60.1		ug/L		120	68 - 130
cis-1,3-Dichloropropene	50.0	55.5		ug/L		111	69 - 132
Cyclohexane	50.0	53.7		ug/L		107	70 - 130
Dibromochloromethane	50.0	58.3		ug/L		117	67 - 135
Dichlorodifluoromethane	50.0	51.1		ug/L		102	41 - 146
Diisopropyl ether	50.0	56.6		ug/L		113	64 - 132
Ethyl tert-butyl ether	50.0	53.3		ug/L		107	55 - 133
Ethylbenzene	50.0	54.6		ug/L		109	70 - 130
Ethylene Dibromide	50.0	50.0		ug/L		100	70 - 130
Isopropylbenzene	50.0	56.3		ug/L		113	70 - 130
Methyl acetate	100	101		ug/L		101	45 - 159
Methyl Ethyl Ketone	200	314	*+	ug/L		157	61 - 145
methyl isobutyl ketone	200	216		ug/L		108	69 - 138
Methyl tert-butyl ether	50.0	52.4		ug/L		105	66 - 130
Methylcyclohexane	50.0	54.0		ug/L		108	70 - 130
Methylene Chloride	50.0	45.6		ug/L		91	66 - 135
Naphthalene	50.0	49.8		ug/L		100	47 - 149
Styrene	50.0	50.3		ug/L		101	70 - 130
Tert-amyl methyl ether	50.0	48.4		ug/L		97	52 - 132
tert-Butyl alcohol	500	564		ug/L		113	46 - 143
Tetrachloroethene	50.0	49.9		ug/L		100	65 - 130
Toluene	50.0	52.7		ug/L		105	70 - 130
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	60.4		ug/L		121	63 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-537990/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 537990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	55.8		ug/L		112	70 - 130
Trichlorofluoromethane	50.0	62.4		ug/L		125	65 - 138
Vinyl chloride	50.0	60.6		ug/L		121	59 - 136
Xylenes, Total	100	111		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*72 - 119*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*102*		*64 - 132*

Method: 8015C - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 400-536820/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	100	U	100	47	ug/L			06/23/21 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*105*		*69 - 147*		*06/23/21 14:51*	*1*

Lab Sample ID: LCS 400-536820/1003 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6--C10	1000	1090		ug/L		109	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*101*		*69 - 147*

Lab Sample ID: MB 400-536853/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	100	U	100	47	ug/L			06/23/21 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*106*		*69 - 147*		*06/23/21 14:19*	*1*

Lab Sample ID: LCS 400-536853/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6--C10	1000	1020		ug/L		102	85 - 115

Method: 8015C - Gasoline Range Organics (GRO) (GC) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	103		69 - 147

Lab Sample ID: LCSD 400-536853/1024 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6--C10			1000	1040		ug/L		104	85 - 115	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	103		69 - 147

Lab Sample ID: MB 400-536960/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6--C10	100	U	100	47	ug/L			06/24/21 13:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		69 - 147		06/24/21 13:42	1

Lab Sample ID: LCS 400-536960/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536960

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6--C10			1000	931		ug/L		93	85 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	99		69 - 147

Lab Sample ID: 680-200395-3 MS — **Client Sample ID: CSXT MW-22 (161721)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536960

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6--C10	2200	F2 F1	1000	3410		ug/L		120	35 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	87		69 - 147

Lab Sample ID: 680-200395-3 MSD — **Client Sample ID: CSXT MW-22 (161721)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 536960

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6--C10	2200	F2 F1	1000	2790	F2	ug/L		57	35 - 150	20	15

Method: 8015C - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 680-200395-3 MSD
Matrix: Water
Analysis Batch: 536960

Client Sample ID: CSXT MW-22 (161721)
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	93		69 - 147

Method: 8015C - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-536885/1-A
Matrix: Water
Analysis Batch: 537032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	130	U	130	100	ug/L		06/24/21 07:44	06/24/21 19:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	90		21 - 150	06/24/21 07:44	06/24/21 19:41	1

Lab Sample ID: LCS 400-536885/2-A
Matrix: Water
Analysis Batch: 537032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536885

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			16300	14400		ug/L		88	49 - 128		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	96		21 - 150

Lab Sample ID: LCSD 400-536885/3-A
Matrix: Water
Analysis Batch: 537032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 536885

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			16300	14200		ug/L		87	49 - 128	1	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl (Surr)	93		21 - 150

Lab Sample ID: MB 400-537086/1-A
Matrix: Water
Analysis Batch: 537397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 537086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	130	U	130	100	ug/L		06/25/21 09:13	06/28/21 20:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	119		21 - 150	06/25/21 09:13	06/28/21 20:25	1

Method: 8015C - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 400-537086/3-A
Matrix: Water
Analysis Batch: 537397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 537086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			16300	17300		ug/L		106	49 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*119*		*21 - 150*

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

GC/MS VOA

Analysis Batch: 537619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-2	CSXT MW-06R (161721)	Total/NA	Water	8260B	
680-200395-3	CSXT MW-22 (161721)	Total/NA	Water	8260B	
MB 400-537619/4	Method Blank	Total/NA	Water	8260B	
LCS 400-537619/1002	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 537835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-1	CSXT MW-03 (161821)	Total/NA	Water	8260B	
680-200395-4	CSXT MW-24 (161821)	Total/NA	Water	8260B	
680-200395-5	CSXT MW-25 (161821)	Total/NA	Water	8260B	
680-200395-6	CSXT MW-43 (161721)	Total/NA	Water	8260B	
680-200395-7	CSXT MW-51 (161721)	Total/NA	Water	8260B	
680-200395-8	CSXT MW-64 (161821)	Total/NA	Water	8260B	
680-200395-9	CSXT MW-69 (161821)	Total/NA	Water	8260B	
680-200395-11	NPS MW-01 (061721)	Total/NA	Water	8260B	
680-200395-12	NPS MW-02 (061721)	Total/NA	Water	8260B	
680-200395-13	NPS MW-04 (061721)	Total/NA	Water	8260B	
680-200395-14	NPS MW-05 (061721)	Total/NA	Water	8260B	
680-200395-15	NPS MW-13 (061721)	Total/NA	Water	8260B	
680-200395-16	NPS MW-14 (061721)	Total/NA	Water	8260B	
680-200395-17	NPS MW-16 (061721)	Total/NA	Water	8260B	
680-200395-18	NPS MW-18 (061721)	Total/NA	Water	8260B	
680-200395-19	DUP-01 (061721)	Total/NA	Water	8260B	
680-200395-20	Trip Blank	Total/NA	Water	8260B	
MB 400-537835/6	Method Blank	Total/NA	Water	8260B	
LCS 400-537835/1003	Lab Control Sample	Total/NA	Water	8260B	
680-200395-6 MS	CSXT MW-43 (161721)	Total/NA	Water	8260B	
680-200395-6 MSD	CSXT MW-43 (161721)	Total/NA	Water	8260B	

Analysis Batch: 537990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-10	CSXT MW-71 (161821)	Total/NA	Water	8260B	
MB 400-537990/4	Method Blank	Total/NA	Water	8260B	
LCS 400-537990/1002	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 536820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-11	NPS MW-01 (061721)	Total/NA	Water	8015C	
680-200395-17	NPS MW-16 (061721)	Total/NA	Water	8015C	
680-200395-18	NPS MW-18 (061721)	Total/NA	Water	8015C	
680-200395-19	DUP-01 (061721)	Total/NA	Water	8015C	
680-200395-20	Trip Blank	Total/NA	Water	8015C	
MB 400-536820/4	Method Blank	Total/NA	Water	8015C	
LCS 400-536820/1003	Lab Control Sample	Total/NA	Water	8015C	

Analysis Batch: 536853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-1	CSXT MW-03 (161821)	Total/NA	Water	8015C	
680-200395-3	CSXT MW-22 (161721)	Total/NA	Water	8015C	

GC VOA (Continued)

Analysis Batch: 536853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-4	CSXT MW-24 (161821)	Total/NA	Water	8015C	
680-200395-5	CSXT MW-25 (161821)	Total/NA	Water	8015C	
680-200395-6	CSXT MW-43 (161721)	Total/NA	Water	8015C	
680-200395-7	CSXT MW-51 (161721)	Total/NA	Water	8015C	
680-200395-8	CSXT MW-64 (161821)	Total/NA	Water	8015C	
680-200395-9	CSXT MW-69 (161821)	Total/NA	Water	8015C	
680-200395-10	CSXT MW-71 (161821)	Total/NA	Water	8015C	
680-200395-12	NPS MW-02 (061721)	Total/NA	Water	8015C	
680-200395-13	NPS MW-04 (061721)	Total/NA	Water	8015C	
680-200395-14	NPS MW-05 (061721)	Total/NA	Water	8015C	
680-200395-15	NPS MW-13 (061721)	Total/NA	Water	8015C	
680-200395-16	NPS MW-14 (061721)	Total/NA	Water	8015C	
MB 400-536853/3	Method Blank	Total/NA	Water	8015C	
LCS 400-536853/1002	Lab Control Sample	Total/NA	Water	8015C	
LCSD 400-536853/1024	Lab Control Sample Dup	Total/NA	Water	8015C	

Analysis Batch: 536960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-2	CSXT MW-06R (161721)	Total/NA	Water	8015C	
MB 400-536960/3	Method Blank	Total/NA	Water	8015C	
LCS 400-536960/1002	Lab Control Sample	Total/NA	Water	8015C	
680-200395-3 MS	CSXT MW-22 (161721)	Total/NA	Water	8015C	
680-200395-3 MSD	CSXT MW-22 (161721)	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 536885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-2	CSXT MW-06R (161721)	Total/NA	Water	3510C	
680-200395-3	CSXT MW-22 (161721)	Total/NA	Water	3510C	
680-200395-6	CSXT MW-43 (161721)	Total/NA	Water	3510C	
680-200395-7	CSXT MW-51 (161721)	Total/NA	Water	3510C	
680-200395-11	NPS MW-01 (061721)	Total/NA	Water	3510C	
680-200395-12	NPS MW-02 (061721)	Total/NA	Water	3510C	
680-200395-13	NPS MW-04 (061721)	Total/NA	Water	3510C	
680-200395-14	NPS MW-05 (061721)	Total/NA	Water	3510C	
680-200395-15	NPS MW-13 (061721)	Total/NA	Water	3510C	
680-200395-16	NPS MW-14 (061721)	Total/NA	Water	3510C	
680-200395-17	NPS MW-16 (061721)	Total/NA	Water	3510C	
680-200395-18	NPS MW-18 (061721)	Total/NA	Water	3510C	
680-200395-19	DUP-01 (061721)	Total/NA	Water	3510C	
MB 400-536885/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-536885/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-536885/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 537032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-2	CSXT MW-06R (161721)	Total/NA	Water	8015C	536885
680-200395-3	CSXT MW-22 (161721)	Total/NA	Water	8015C	536885
680-200395-6	CSXT MW-43 (161721)	Total/NA	Water	8015C	536885
680-200395-7	CSXT MW-51 (161721)	Total/NA	Water	8015C	536885

GC Semi VOA (Continued)

Analysis Batch: 537032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-11	NPS MW-01 (061721)	Total/NA	Water	8015C	536885
680-200395-12	NPS MW-02 (061721)	Total/NA	Water	8015C	536885
680-200395-13	NPS MW-04 (061721)	Total/NA	Water	8015C	536885
680-200395-14	NPS MW-05 (061721)	Total/NA	Water	8015C	536885
680-200395-15	NPS MW-13 (061721)	Total/NA	Water	8015C	536885
680-200395-16	NPS MW-14 (061721)	Total/NA	Water	8015C	536885
680-200395-17	NPS MW-16 (061721)	Total/NA	Water	8015C	536885
680-200395-18	NPS MW-18 (061721)	Total/NA	Water	8015C	536885
680-200395-19	DUP-01 (061721)	Total/NA	Water	8015C	536885
MB 400-536885/1-A	Method Blank	Total/NA	Water	8015C	536885
LCS 400-536885/2-A	Lab Control Sample	Total/NA	Water	8015C	536885
LCSD 400-536885/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	536885

Prep Batch: 537086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-1	CSXT MW-03 (161821)	Total/NA	Water	3510C	
680-200395-4	CSXT MW-24 (161821)	Total/NA	Water	3510C	
680-200395-5	CSXT MW-25 (161821)	Total/NA	Water	3510C	
680-200395-8	CSXT MW-64 (161821)	Total/NA	Water	3510C	
680-200395-9	CSXT MW-69 (161821)	Total/NA	Water	3510C	
680-200395-10	CSXT MW-71 (161821)	Total/NA	Water	3510C	
MB 400-537086/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-537086/3-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 537397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-200395-1	CSXT MW-03 (161821)	Total/NA	Water	8015C	537086
680-200395-4	CSXT MW-24 (161821)	Total/NA	Water	8015C	537086
680-200395-5	CSXT MW-25 (161821)	Total/NA	Water	8015C	537086
680-200395-8	CSXT MW-64 (161821)	Total/NA	Water	8015C	537086
680-200395-9	CSXT MW-69 (161821)	Total/NA	Water	8015C	537086
680-200395-10	CSXT MW-71 (161821)	Total/NA	Water	8015C	537086
MB 400-537086/1-A	Method Blank	Total/NA	Water	8015C	537086
LCS 400-537086/3-A	Lab Control Sample	Total/NA	Water	8015C	537086

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-03 (161821)

Lab Sample ID: 680-200395-1

Date Collected: 06/18/21 08:40
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 18:58	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 23:10	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			267.6 mL	1 mL	537086	06/25/21 09:13	IAG	TAL PEN
Total/NA	Analysis	8015C		1			537397	06/28/21 22:04	TAJ	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-06R (161721)

Lab Sample ID: 680-200395-2

Date Collected: 06/17/21 15:10
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537619	06/30/21 19:14	EEH	TAL PEN
	Instrument ID: Curie									
Total/NA	Analysis	8015C		2	5 mL	5 mL	536960	06/24/21 17:00	NTH	TAL PEN
	Instrument ID: CH_PAULA									
Total/NA	Prep	3510C			230.2 mL	1 mL	536885	06/24/21 10:03	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 23:27	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-22 (161721)

Lab Sample ID: 680-200395-3

Date Collected: 06/17/21 17:10
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537619	06/30/21 19:39	EEH	TAL PEN
	Instrument ID: Curie									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 21:48	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			253.6 mL	1 mL	536885	06/24/21 10:03	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 23:41	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-24 (161821)

Lab Sample ID: 680-200395-4

Date Collected: 06/18/21 10:50
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 19:24	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 22:13	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			247.2 mL	1 mL	537086	06/25/21 09:13	IAG	TAL PEN
Total/NA	Analysis	8015C		1			537397	06/28/21 22:18	TAJ	TAL PEN
	Instrument ID: Eva									

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: CSXT MW-25 (161821)

Lab Sample ID: 680-200395-5
Date Collected: 06/18/21 08:15
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 19:50	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 22:40	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			252.8 mL	1 mL	537086	06/25/21 09:13	IAG	TAL PEN
Total/NA	Analysis	8015C		1			537397	06/28/21 22:32	TAJ	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-43 (161721)

Lab Sample ID: 680-200395-6
Date Collected: 06/17/21 14:15
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 12:00	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 17:05	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			259.6 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 20:38	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-51 (161721)

Lab Sample ID: 680-200395-7
Date Collected: 06/17/21 16:35
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 12:26	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 17:32	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			259.4 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 20:52	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-64 (161821)

Lab Sample ID: 680-200395-8
Date Collected: 06/18/21 10:10
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 20:15	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 17:58	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			265.2 mL	1 mL	537086	06/25/21 09:13	IAG	TAL PEN
Total/NA	Analysis	8015C		1			537397	06/28/21 22:46	TAJ	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-69 (161821)

Lab Sample ID: 680-200395-9

Date Collected: 06/18/21 09:25
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 20:42	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 20:53	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			250.6 mL	1 mL	537086	06/25/21 09:13	IAG	TAL PEN
Total/NA	Analysis	8015C		1			537397	06/28/21 23:13	TAJ	TAL PEN
	Instrument ID: Eva									

Client Sample ID: CSXT MW-71 (161821)

Lab Sample ID: 680-200395-10

Date Collected: 06/18/21 07:35
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537990	07/02/21 12:42	BEP	TAL PEN
	Instrument ID: Curie									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/23/21 20:26	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			258 mL	1 mL	537086	06/25/21 09:13	IAG	TAL PEN
Total/NA	Analysis	8015C		1			537397	06/28/21 23:27	TAJ	TAL PEN
	Instrument ID: Eva									

Client Sample ID: NPS MW-01 (061721)

Lab Sample ID: 680-200395-11

Date Collected: 06/17/21 10:05
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 12:52	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536820	06/23/21 22:53	NTH	TAL PEN
	Instrument ID: CH_PAULA									
Total/NA	Prep	3510C			259.2 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 21:06	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: NPS MW-02 (061721)

Lab Sample ID: 680-200395-12

Date Collected: 06/17/21 11:35
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 13:18	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/24/21 00:01	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			246.4 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 21:20	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: NPS MW-04 (061721)

Lab Sample ID: 680-200395-13

Date Collected: 06/17/21 14:35
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 13:44	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/24/21 00:27	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			258.6 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 21:34	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: NPS MW-05 (061721)

Lab Sample ID: 680-200395-14

Date Collected: 06/17/21 09:35
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 14:10	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/24/21 00:53	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			253 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 21:49	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: NPS MW-13 (061721)

Lab Sample ID: 680-200395-15

Date Collected: 06/17/21 09:00
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 14:36	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/24/21 01:20	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			263.8 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 22:03	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: NPS MW-14 (061721)

Lab Sample ID: 680-200395-16

Date Collected: 06/17/21 08:25
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 15:02	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536853	06/24/21 01:46	NTH	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3510C			255.2 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 22:31	JAW	TAL PEN
	Instrument ID: Eva									

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Client Sample ID: NPS MW-16 (061721)

Lab Sample ID: 680-200395-17

Date Collected: 06/17/21 13:35
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 15:28	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536820	06/23/21 23:21	NTH	TAL PEN
	Instrument ID: CH_PAULA									
Total/NA	Prep	3510C			255.6 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 22:45	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: NPS MW-18 (061721)

Lab Sample ID: 680-200395-18

Date Collected: 06/17/21 12:05
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 15:54	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536820	06/23/21 23:49	NTH	TAL PEN
	Instrument ID: CH_PAULA									
Total/NA	Prep	3510C			210 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 22:59	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: DUP-01 (061721)

Lab Sample ID: 680-200395-19

Date Collected: 06/17/21 12:00
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 16:20	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536820	06/24/21 00:17	NTH	TAL PEN
	Instrument ID: CH_PAULA									
Total/NA	Prep	3510C			237.4 mL	1 mL	536885	06/24/21 07:44	HMW	TAL PEN
Total/NA	Analysis	8015C		1			537032	06/24/21 23:13	JAW	TAL PEN
	Instrument ID: Eva									

Client Sample ID: Trip Blank

Lab Sample ID: 680-200395-20

Date Collected: 06/17/21 00:00
Matrix: Water
Date Received: 06/19/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	537835	07/01/21 16:47	CAR	TAL PEN
	Instrument ID: CH_TAN									
Total/NA	Analysis	8015C		1	5 mL	5 mL	536820	06/24/21 01:14	NTH	TAL PEN
	Instrument ID: CH_PAULA									

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Baltimore #201

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1

LABORATORY INFORMATION

- ☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404 P: 912-354-7858 F: 912-352-0165
- ☐ TestAmerica North Canton - 4101 Shuffel Drive NW, North Canton, OH 44720 P: 330-497-9396 F: 330-497-0772
- ☐ TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634 P: 813-885-7427 F: 813-885-7049
- ☐ TestAmerica Pensacola - 3355 McLemore Drive, Pensacola, FL 32514 P: 850-474-1001 F: 850-478-2671
- ☐ TestAmerica Buffalo - 10 Hazelwood Drive, Suite 106, Amherst, NY 14228 P: 716-691-2600 F: 716-961-7991
- ☐ TestAmerica Chicago - 2417 Bond Street, University Park, IL 60466 P: 708-534-5200 F: 708-534-5211

SHIPMENT INFORMATION

Shipment Method:

Shipment Tracking No:

CSXT PROJECT INFORMATION

Proj. State (State of Origin): Maryland

CSXT Project Number: ~~30042868.01~~ 9415381

Proj. City: Brunswick

CSXT Project Name: CSXT Brunswick Yard

CSXT Contact:

LWON: ENV 35683

CONSULTANT INFORMATION

Project #: 30042868.01

Company: Arcadis

PM: Josh Wilson

Address: 7550 Teague Rd. 210

Email: josh.wilson@arcadis.com

City, State, Zip: Hanover, MD 21076

Phone: 4107139924

Fax:

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Preservative Codes:
- 0 = No Preservatives
- 1 = Hydrochloric Acid
- 2 = Nitric Acid
- 3 = Sulfuric Acid
- 4 = Sodium Thiosulfate
- 5 = Sodium Hydroxide
- 6 = Other _____

Note ➡ 1 1 0

Pres. Code

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☒ EDD Required, Format: Locus Simplified

Matrix Codes:
- GW = Groundwater
- WW = Waste Water
- SW = Surface Water
- SO = Soil
- SL = Sludge
- OI = Oil
- SOL = Other Solid
- LIQ = Liquid

METHODS FOR ANALYSIS

680-200395 Chain of Custody

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	VOCs + Oxygenates 8260B	TPH-GRO 8015C	TPH-DRO 8015C	COMMENTS	LAB USE
CSXT MW-03 (0618 21)	6	6/18/21	0840	AF	N	G	GW	2	2	2		
CSXT MW-06R (0617 21)		6/17/21	1510									
CSXT MW-22 (0617 21)		6/17/21	1710									
CSXT MW-24 (0618 21)		6/18/21	1050									
CSXT MW-25 (0618 21)		6/18/21	0815									
CSXT MW-43 (0617 21)		6/17/21	1415									
CSXT MW-51 (0617 21)		6/17/21	1635									
CSXT MW-64 (0618 21)		6/18/21	1010									
CSXT MW-69 (0618 21)		6/18/21	0925									
CSXT MW-71 (0618 21)	6	6/18/21	0735	AF	N	G	GW	2	2	2		

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/18/21 1240	[signature] Elm Bolt	6/18/21 1240
[signature]	6/18/21 1700	Wade [signature]	6/19/21 1000
Received By Laboratory:	Date/Time:	Lab Remarks: 2.1/2.2, 1.4/1.5, 2.7/2.8	LAB USE: ☐ Yes Custody Intact ☐ No

Comments & Special Analytical Requirements:

Custody Seal # #

LAB Log Number #

ORIGINAL – RETURN TO LABORATORY WITH SAMPLES

INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

TAL-6006 (0509)

#29

Baltimore #201

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION

- ☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404 P: 912-354-7858 F: 912-352-0165
- ☐ TestAmerica North Canton - 4101 Shuffel Drive NW, North Canton, OH 44720 P: 330-497-9396 F: 330-497-0772
- ☐ TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634 P: 813-885-7427 F: 813-885-7049
- ☐ TestAmerica Pensacola - 3355 McLemore Drive, Pensacola, FL 32514 P: 850-474-1001 F: 850-478-2671
- ☐ TestAmerica Buffalo - 10 Hazelwood Drive, Suite 106, Amherst, NY 14228 P: 716-691-2600 F: 716-961-7991
- ☐ TestAmerica Chicago - 2417 Bond Street, University Park, IL 60466 P: 708-534-5200 F: 708-534-5211

COC # 2 — Baltimore #201

SHIPMENT INFORMATION

Shipment Method:

Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: 9415381

CSXT Project Name: CSXT Brunswick Yard

CSXT Contact:

Proj. State (State of Origin): Maryland

Proj. City: Brunswick

LWON: ENV 35683

CONSULTANT INFORMATION

Company: Arcadis

Address: 7550 Teague Rd 210

City, State, Zip: Hanover, MD 21076

Project #: 3004 2868

PM: Josh Wilson

Email: josh.wilson@arcadis.com

Phone: 4107139924

Fax:

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Preservative Codes:
- 0 = No Preservatives
- 1 = Hydrochloric Acid
- 2 = Nitric Acid
- 3 = Sulfuric Acid
- 4 = Sodium Thiosulfate
- 5 = Sodium Hydroxide
- 6 = Other _____

Note ➡ Pres. Code: 1 1 0

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☒ EDD Required, Format: Locus Simplified

Matrix Codes:
- GW = Groundwater
- WW = Waste Water
- SW = Surface Water
- SO = Soil
- SL = Sludge
- OI = Oil
- SOL = Other Solid
- LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	VOCs + Oxygenates 8260B	TPH-GRO 8015C	TPH-DRO 8015C	COMMENTS	LAB USE
NPS MW-01 (061721)	6	6/17/21	1005	AF	N	G	GW	2	2	2		
NPS MW-02 (061721)		6/17/21	1135									
NPS MW-04 (061721)		6/17/21	1435									
NPS MW-05 (061721)		6/17/21	0935									
NPS MW-13 (061721)		6/17/21	0900									
NPS MW-14 (061721)		6/17/21	0825									
NPS MW-16 (061721)		6/17/21	1335									
NPS MW-18 (061721)		6/17/21	1205									
DUP-01 (061721)	6	6/17/21	1200	AF	N	G	GW	2	2	2		
Trip Blank	3	–	–	–	–	–	–	3				

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/18/21 1240	[signature] Eta-Dalt	6/18/21 1240
[signature]	6/18/21 1700	Wadevine	6/19/21 1000
Received By Laboratory:	Date/Time:	Lab Remarks: 2.1/2.3, 1.4/1.5, 2.7/2.8 #29	LAB USE: ☐ Yes ☐ No Custody Intact; Custody Seal # #; LAB Log Number #

Comments & Special Analytical Requirements:

ORIGINAL – RETURN TO LABORATORY WITH SAMPLES

INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

TAL-6006 (0509)

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 680-657809.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin: Maryland	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maryland		Job #: 680-200395-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/1/2021			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #			
Email:	WO #			
Project Name: CSX MD, C&O Canal, Brunswick	Project #: 68001180			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B VOCs 8260 + Oxygenates	8015C_DRO/3510C_LVI DRO C10-C28 (Default)	8015C_GRO/5030C (MOD) GRO (C6 - C10)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CSXT MW-03 (161821) (680-200395-1)	6/18/21	08:40 Eastern		Water			X	X	X	6	
CSXT MW-06R (161721) (680-200395-2)	6/17/21	15:10 Eastern		Water			X	X	X	6	
CSXT MW-22 (161721) (680-200395-3)	6/17/21	17:10 Eastern		Water			X	X	X	6	
CSXT MW-24 (161821) (680-200395-4)	6/18/21	10:50 Eastern		Water			X	X	X	6	
CSXT MW-25 (161821) (680-200395-5)	6/18/21	08:15 Eastern		Water			X	X	X	6	
CSXT MW-43 (161721) (680-200395-6)	6/17/21	14:15 Eastern		Water			X	X	X	6	
CSXT MW-51 (161721) (680-200395-7)	6/17/21	16:35 Eastern		Water			X	X	X	6	
CSXT MW-64 (161821) (680-200395-8)	6/18/21	10:10 Eastern		Water			X	X	X	6	
CSXT MW-69 (161821) (680-200395-9)	6/18/21	09:25 Eastern		Water			X	X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by: Date:	Time: Method of Shipment:

Relinquished by: [signature]	Date/Time: 6/21/21 1530	Company: TA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 6-22-21 0934	Company: ETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0, 0.3, 2.7 °C IR8

Ver: 11/01/2020

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 680-657809.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin: Maryland	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maryland		Job #: 680-200395-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/1/2021			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: CSX MD, C&O Canal, Brunswick	Project #: 68001180			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B VOCs 8260 + Oxygenates	8015C_DRO/3510C_LVI DRO C10-C28 (Default)	8015C_GRO/5030C (MOD) GRO (C6 - C10)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CSXT MW-71 (161821) (680-200395-10)	6/18/21	07:35 Eastern		Water			X	X	X	5	
NPS MW-01 (061721) (680-200395-11)	6/17/21	10:05 Eastern		Water			X	X	X	6	
NPS MW-02 (061721) (680-200395-12)	6/17/21	11:35 Eastern		Water			X	X	X	6	
NPS MW-04 (061721) (680-200395-13)	6/17/21	14:35 Eastern		Water			X	X	X	6	
NPS MW-05 (061721) (680-200395-14)	6/17/21	09:35 Eastern		Water			X	X	X	6	
NPS MW-13 (061721) (680-200395-15)	6/17/21	09:00 Eastern		Water			X	X	X	6	
NPS MW-14 (061721) (680-200395-16)	6/17/21	08:25 Eastern		Water			X	X	X	6	
NPS MW-16 (061721) (680-200395-17)	6/17/21	13:35 Eastern		Water			X	X	X	6	
NPS MW-18 (061721) (680-200395-18)	6/17/21	12:05 Eastern		Water			X	X	X	5	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*		***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 6/21/21 1530	Company: TA	Received by:
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by: [signature]
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:

Received by:	Date/Time:	Company
Received by:	Date/Time:	Company
Received by: [signature]	Date/Time: 6-22-21 // 0934	Company: ETA

Ver: 11/01/2020

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 680-657809.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin: Maryland	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Maryland		Job #: 680-200395-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/1/2021			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: CSX MD, C&O Canal, Brunswick	Project #: 68001180			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B VOCs 8260 + Oxygenates	8015C_DRO/3510C_LVI DRO C10-C28 (Default)	8015C_GRO/5030C (MOD) GRO (C6 - C10)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DUP-01 (061721) (680-200395-19)	6/17/21	12:00 Eastern		Water			X	X	X	6	
Trip Blank (680-200395-20)	6/17/21	Eastern		Water			X	X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*		***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 6/21/21 1530	Company: AD	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6-22-21 0936	Company: ETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

0.00c 1128BL

ORIGIN ID:SAVA (912) 354-7858
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROUCHE AVE

SAVANNAH, GA 31404
UNITED STATES US

SHIP DATE: 21JUN21
ACTWGT: 30.00 LB MAN
CAD: 0801261/CAFE3409

BILL SENDER

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(850) 474-1001 REF: 8680-127154
PO: YES

FedEx Express

3 of 3
MPS# 0263 1328 9412 4725
Mstr# 1328 9412 4703 0201

TUE - 22 JUN 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL-US BFM

Part # 159469-434 RITZ EXP 11/21

Part # 159469-434 RIT2 EXP 11/21

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

0.30C
1R8BUA
4714
06.22
10:30
RT 574
FZ

ORIGIN ID:SAVA (912) 354-7858
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROUCHE AVE

SAVANNAH, GA 31404
UNITED STATES US

BILL

TO **SHIPPING/RECEIVING**
TESTAMERICA LABORATORIES, INC.
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(850) 474-1001 REF: S680-127154
PO: YES

FedEx Express

E

J201120121801uv

2 of 3
MPS# 0263 1328 9412 4714
Mstr# 1328 9412 4703 0201

TUE - 22 JUN 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL-US BFM

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2.7 dc 1R 8 13W

ORIGIN ID:SAVA (912) 354-7858
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROUCHE AVE

SAVANNAH, GA 31404
UNITED STATES US

SHIP DATE: 21JUN21
ACTWGT: 30.00 LB MAN
CAD: 0801261/CAFE3409

BILL SENDER

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(850) 474-1001 REF: S680-127154
PO: YES

FedEx Express

1 of 3

TRK# 0201 1328 9412 4703

MASTER

TUE - 22 JUN 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL-US BFM

Part # 159469-434 RIT2 EXP 11/21

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-200395-1
SDG Number: ENV00000035683/9415381

Login Number: 200395
List Number: 1
Creator: White, Wade

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-200395-1
SDG Number: ENV00000035683/9415381

Login Number: 200395
List Number: 2
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola
List Creation: 06/22/21 12:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0, 0.3, 2.7°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: CSX MD, C&O Canal, Brunswick

Job ID: 680-200395-1
SDG: ENV00000035683/9415381

Laboratory: Eurofins TestAmerica, Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maryland	State	233	09-30-21

Attachment 5

Historical Groundwater and Analytical Data

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
CSXT MW-01	7/5/1994	N	2	NA	NA	NA	NA	NA	NA	< 1 U	< 3 U	9.7	NA
	8/29/1995	N	< 5 U	NA	NA	NA	< 10 U	NA	NA	< 5 U	< 10 U	19	NA
	3/10/1997	N	<1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 1 U	13	NA
	3/12/1998	N	< 2 U	NA	NA	NA	< 10 U	NA	NA	< 2 U	< 2 U	25.7	NA
	11/9/1999	N	< 1 U	NA	NA	NA	6	NA	NA	< 1 U	< 2 U	7.56	NA
	4/11/2000	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	9.58	NA
	5/7/2002	N	< 1 U	NA	NA	NA	<10 U	NA	NA	< 1 U	< 2 U	37.3	NA
	5/15/2003	N	< 1 U	NA	NA	NA	< 8 U	NA	NA	< 1 U	< 2 U	2.51	NA
	5/7/2004	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/16/2005	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	0.75	NA
	6/6/2006	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	11	NA
	12/27/2006	N	< 5 U	NA	NA	97	< 25 U	NA	NA	< 5 U	< 10 U	12	0.69
	3/5/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	11	0.068
	5/22/2007	N	< 1 U	NA	NA	90	< 5 U	NA	NA	< 1 U	< 2 U	NA	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	210	< 5 U	NA	NA	< 1 U	< 2 U	3.7	< 0.05 U
	12/5/2007	N	< 1 U	0.66 J	< 1 U	210 E	< 1 U	9.2	24	< 1 U	< 3 U	8.3	0.16
	2/28/2008	N	< 0.35 U	0.72	< 0.6 U	160 D	2.7	7.1	10 B	< 0.51 U	< 0.93 U	3.8	0.17
	5/23/2008	N	< 0.7 U	1.2	< 1.2 U	280 D	< 0.87 U	9.6	42	< 1 U	< 1.9 U	0.91	0.24
	8/6/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	160 D	< 0.43 U	3.9	< 3.6 U	< 0.51 U	< 0.93 U	1.9	0.1
CSXT MW-02	7/5/1994	N	31	NA	NA	NA	NA	NA	NA	2	22	110	NA
	5/7/2002	N	13.3	NA	NA	NA	63	NA	NA	5.8	62.3	222	NA
	5/15/2003	N	< 5 U	NA	NA	NA	< 9 U	NA	NA	19.1	103	188	NA
	5/6/2004	N	< 1 U	NA	NA	NA	10	NA	NA	< 1 U	< 2 U	4.12	NA
	8/12/2008	N	0.70	< 0.17 U	< 0.6 U	< 0.28 U	7	< 0.53 U	< 3.6 U	0.66	< 0.93 U	250	0.12
CSXT MW-03	7/5/1994	N	< 1 U	NA	NA	NA	NA	NA	NA	< 1 U	< 3 U	0.83	NA
	8/29/1995	N	< 5 U	NA	NA	NA	< 10 U	NA	NA	< 5 U	< 10 U	< 0.6 U	NA
	3/10/1997	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 1 U	0.47	NA
	3/12/1998	N	< 2 U	NA	NA	NA	< 10 U	NA	NA	< 2 U	< 2 U	< 0.1 U	NA
	11/9/1999	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	0.54	NA
	4/11/2000	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/16/2001	N	< 1 U	NA	NA	NA	< 11 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/7/2002	N	< 1 U	NA	NA	NA	< 9 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/15/2003	N	< 1 U	NA	NA	NA	< 11 U	NA	NA	< 1 U	< 2 U	< 0.11 U	NA
	5/6/2004	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/16/2005	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	< 0.095 U	NA
	6/6/2006	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	12/14/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	< 0.094 U	< 0.05 U
	3/5/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	< 0.097 U	< 0.05 U
	5/22/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	< 0.096 U	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	0.18	< 0.05 U
	12/3/2007	FD	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.098 U	< 0.05 U
	12/3/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.098 U	< 0.05 U
	2/26/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.22	< 0.0042 U
	5/21/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.04 U	< 0.0042 U
	8/7/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.043 U	< 0.0042 U
	3/3/2009	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	< 0.47 U	NA
	9/8/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	0.16	NA
	3/9/2010	FD	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	0.18	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	0.16	NA
	9/23/2010	FD	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	0.26	NA
	9/23/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	0.27	NA
	2/16/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	0.23	NA
	8/10/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.13	NA
	3/22/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.14	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	< 0.1 U	< 0.05 U
	1/14/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.049 J	< 0.05 U
	9/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.086 JB	< 0.05 U
	3/13/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.086 JB	0.06 B
	9/17/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.083 J	< 0.1 U
	3/26/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	0.11 B	< 0.1 U
	9/23/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	0.20	< 0.1 U
	3/25/2016	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	0.18	< 0.1 U
	9/27/2016	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.084 J	< 0.1 U
	3/28/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.11 F1	< 0.1 U
	9/12/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 10 U	< 10 U	0.12	< 0.1 U
	3/23/2018	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 10 U	< 10 U	0.1	< 0.1 U
	9/19/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	0.11	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.081 J	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.056 J*	<0.1 U
	7/1/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.130 U	<0.1 U
	12/17/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.130 U	<0.1 U
	6/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	1.2	< 10 U	< 0.120 U	0.067 J
CSXT MW-04	7/5/1994	FD	83	NA	NA	NA	NA	NA	NA	< 1 U	13	150	NA
	7/5/1994	N	94	NA	NA	NA	NA	NA	NA	< 1 U	12	210	NA
	3/12/1998	N	< 2 U	NA	NA	NA	< 10 U	NA	NA	< 2 U	< 2 U	78.8	NA
	11/9/1999	N	< 1 U	NA	NA	NA	136000	NA	NA	< 1 U	< 2 U	53.4	NA
	4/11/2000	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	13.1	NA
	5/16/2001	N	< 1 U	NA	NA	NA	< 11 U	NA	NA	< 1 U	< 2 U	1.27	NA
	5/7/2002	N	< 1 U	NA	NA	NA	< 10 U	NA	NA	< 1 U	< 2 U	2.66	NA
	5/15/2003	N	< 1 U	NA	NA	NA	< 9 U	NA	NA	< 1 U	< 2 U	< 0.08 U	NA
	5/6/2004	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	< 0.11 U	NA
	5/16/2005	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	3.9	NA
	6/6/2006	N		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/7/2007	N	0.63 J	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	6.7	0.046 J
CSXT MW-05	8/29/1995	FD	< 5 U	NA	NA	NA	23	NA	NA	< 5 U	< 10 U	4.3	NA
	8/29/1995	N	< 5 U	NA	NA	NA	23	NA	NA	< 5 U	< 10 U	4.3	NA
	3/10/1997	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 1 U	1.16	NA
	3/12/1998	N	< 2 U	NA	NA	NA	< 10 U	NA	NA	< 2 U	< 2 U	77.3	NA
	4/11/2000	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	28.9	NA
	5/16/2001	N	< 1 U	NA	NA	NA	< 11 U	NA	NA	< 1 U	< 2 U	13.9	NA
	5/7/2002	N	< 1 U	NA	NA	NA	< 9 U	NA	NA	< 1 U	< 2 U	36.7	NA
	5/15/2003	N	< 1 U	NA	NA	NA	< 9 U	NA	NA	< 1 U	< 2 U	8.22	NA
	5/6/2004	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	2.31	NA
	5/16/2005	FD	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	11	NA
	5/16/2005	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	20	NA
	6/6/2006	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	21	NA
	12/14/2006	N	< 1 U	NA	NA	110	< 5 U	NA	NA	< 1 U	< 2 U	14	< 0.05 U
	3/5/2007	N	< 1 U	NA	NA	52	< 5 U	NA	NA	< 1 U	< 2 U	9	< 0.05 U

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
CSXT MW-05 (continued)	5/22/2007	FD	< 1 U	NA	NA	39	< 5 U	NA	NA	< 1 U	< 2 U	1.5	< 0.05 U
	5/22/2007	N	< 1 U	NA	NA	47	< 5 U	NA	NA	< 1 U	< 2 U	1.5	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	140	< 5 U	NA	NA	< 1 U	< 2 U	2.5	< 0.05 U
	12/5/2007	N	< 1 U	0.65 J	< 1 U	84	< 1 U	0.78 J	4.7 J	< 1 U	< 3 U	3.4	0.070
	2/26/2008	N	< 0.35 U	0.69	< 0.6 U	58	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	10	0.061
	5/22/2008	N	< 0.35 U	0.40	< 0.6 U	5.2	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	6.2	0.0082
	8/6/2008	N	< 0.35 U	0.79	< 0.6 U	9.2	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	14	0.018
CSXT MW-06	8/29/1995	N	< 5 U	NA	NA	NA	< 10 U	NA	NA	< 5 U	< 10 U	6.8	NA
	11/9/1999	N	10	NA	NA	NA	20	NA	NA	< 1 U	< 2 U	251	NA
	4/11/2000	N	16.8	NA	NA	NA	< 5 U	NA	NA	< 5 U	< 10 U	79.4	NA
	5/16/2001	N	10.2	NA	NA	NA	< 11 U	NA	NA	3.8	34.7	45	NA
	5/7/2002	N	6.6	NA	NA	NA	< 10 U	NA	NA	6.2	187	150	NA
	5/15/2003	N	11.8	NA	NA	NA	< 11 U	NA	NA	54.3	253	250	NA
CSXT MW-06R	5/7/2004	N	< 1 U	NA	NA	NA	9.9	NA	NA	< 1 U	< 2 U	15.4	NA
	5/16/2005	N	< 5 U	NA	NA	NA	< 25 U	NA	NA	< 5 U	< 1 U	24	NA
	6/6/2006	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	2.2	NA
	12/15/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	5.1	0.14
	3/2/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	2.4	0.067
	5/23/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	1.3	0.05
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	2.5	0.064
	12/7/2007	N	< 1 U	1.2	1.1	3.7	< 1 U	< 1 U	6.3 J	< 1 U	< 3 U	2.2	0.039 J
	3/3/2008	N	< 0.35 U	0.82	0.79	3.5	< 0.43 U	< 0.53 U	3.9	< 0.51 U	< 0.93 U	1.5	0.055
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	<0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	1.9	0.13
	8/11/2008	FD	< 0.35 U	0.56	< 0.6 U	6.6	0.58	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	14	0.11
	3/25/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	4.4	0.11
	8/11/2008	N	< 0.35 U	0.58	< 0.6 U	6.8	0.46	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	2.4	0.10
	2/26/2009	N	< 1 U	0.77 J	NA	2.0	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	4.0 J	NA
	9/3/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	3.9	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	1.9 J	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	4.2	NA
	9/23/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	2.4	NA
	2/15/2011	FD	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	11	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	11	NA
	8/10/2011	FD	< 1 U	< 1 U	< 1 U	1.6	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	3.5	NA
	8/10/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	4.8	NA
	3/26/2012	FD	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	29	< 1 U	< 10 U	11	NA
	3/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	13	NA
	9/26/2012	FD	< 1 U	< 1 U	< 1 U	1.8	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	2.0	< 0.05 U
	9/26/2012	N	< 1 U	< 1 U	< 1 U	1.7	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	2.0	0.059
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	7.7	0.13
	9/18/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	16 B	0.18
	3/13/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	NA	0.19 B
	9/16/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	2.6	0.15
	12/30/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	4.4	0.13 B
	9/22/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	2.8	0.13
	3/24/2016	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	4.0	0.15
	9/28/2016	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 10 U	< 10 U	5.1	0.1
	3/29/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	22	0.099 J
	9/13/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	8.1	0.097 J
	3/26/2018	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.063 J	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	7.4	0.076 J
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	6.5	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.7	< 1.0 U	< 10 U	< 1.0 U	< 10 U	14 *	0.120
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.6	< 1.0 U	<10 U	0.71 J	< 10 U	4.2	0.860
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<10 U	< 1.0 U	< 10 U	3.2	0.180
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	0.57 JB	2.0 J	16	4
CSXT MW-08	8/29/1995	N	< 5 U	NA	NA	NA	< 10 U	NA	NA	< 5 U	< 10 U	< 0.6 U	NA
	3/10/1997	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 1 U	< 0.1 U	NA
	3/12/1998	N	< 1 U	NA	NA	NA	< 10 U	NA	NA	< 2 U	< 2 U	< 0.1 U	NA
	11/9/1999	N	< 2 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	0.42	NA
	4/11/2000	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/16/2001	N	< 1 U	NA	NA	NA	< 11 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/7/2002	N	< 1 U	NA	NA	NA	< 10 U	NA	NA	< 1 U	< 2 U	< 0.11 U	NA
	5/15/2003	N	< 1 U	NA	NA	NA	< 12 U	NA	NA	< 1 U	< 2 U	< 0.12 U	NA
	5/7/2004	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/16/2005	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	0.14	NA
	6/6/2006	FD	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	6/6/2006	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	< 0.098 U	NA
	12/15/2006	N	< 1 U	NA	NA	38	< 5 U	NA	NA	< 1 U	< 2 U	0.097	< 0.05 U
	2/28/2007	N	< 1 U	NA	NA	17	< 5 U	NA	NA	< 1 U	< 2 U	0.15	< 0.05 U
	5/24/2007	N	< 1 U	NA	NA	21	< 5 U	NA	NA	< 1 U	< 2 U	< 0.097 U	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	37	< 5 U	NA	NA	< 1 U	< 2 U	0.19	< 0.05 U
	11/30/2007	N	< 1 U	1	0.93 J	NA	< 1 U	0.81 J	< 20 U	< 1 U	< 3 U	< 0.097 U	0.026 J
	2/27/2008	N	< 0.35 U	1.5	1.4	26	< 0.43 U	0.69	< 3.6 U	< 0.51 U	< 0.93 U	0.14	0.027
	5/21/2008	N	< 0.35 U	< 0.17 U	0.66	22	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.041 U	0.020
	8/7/2008	FD	< 0.35 U	1.8	1.7	36	< 0.43 U	0.80	< 3.6 U	< 0.51 U	< 0.93 U	< 0.04 U	0.025
	8/7/2008	N	< 0.35 U	1.4	1.9	40	< 0.43 U	1.5	< 3.6 U	< 0.51 U	< 0.93 U	< 0.04 U	0.026
	1/15/2013	N	< 1 U	< 1 U	< 1 U	5.6	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.039 J	< 0.05 U
CSXT MW-09	8/29/1995	N	< 5 U	NA	NA	NA	< 10 U	NA	NA	< 5 U	< 10 U	< 0.6 U	NA
	3/10/1997	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 1 U	< 0.1 U	NA
	3/12/1998	N	< 2 U	NA	NA	NA	< 10 U	NA	NA	< 2 U	< 2 U	< 0.1 U	NA
	11/9/1999	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	1.5	NA
	4/11/2000	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	1.69	NA
	5/16/2001	N	< 1 U	NA	NA	NA	< 11 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/7/2002	N	< 1 U	NA	NA	NA	< 10 U	NA	NA	< 1 U	< 2 U	< 0.1 U	NA
	5/15/2003	N	< 1 U	NA	NA	NA	< 17 U	NA	NA	< 1 U	< 2 U	< 0.12 U	NA
	5/7/2004	N	< 1 U	NA	NA	NA	< 1 U	NA	NA	< 1 U	< 2 U	< 0.11 U	NA
	5/16/2005	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	0.38	NA
	6/6/2006	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	0.16	NA
	12/18/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	0.39	< 0.05 U
	2/28/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	0.68	< 0.05 U
	5/24/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	0.56	< 0.05 U
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	0.48	< 0.05 U
	11/30/2007	N	< 5 U	< 5 U	< 5 U	NA	< 5 U	< 5 U	< 100 U	< 5 U	< 15 U	< 0.097 U	0.0073 J
	2/27/2008	N	< 0.35 U	1.5	1.1	7.0	< 0.43 U	< 0.53 U	4.9 B	< 0.51 U	< 0.93 U	0.15	0.0094
	5/21/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	4.6	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.041 U	0.0079
	8/7/2008	N	< 0.35 U	0.99	0.85	4.4	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.039 U	0.0074
	1/15/2013	N	< 1 U	< 1 U	< 1 U	1.3	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.15	< 0.05 U

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
CSXT MW-20	12/7/2007	N	< 1 U	< 1 U	< 1 U	**1.0**	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.098 U	< 0.05 U
	3/3/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**0.5**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.039 U	< 0.0042 U
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.038 U	< 0.0042 U
	8/11/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	**0.47**	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.044 U	< 0.0042 U
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.036 J**	**0.065**
CSXT MW-21	6/26/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**2.2**	< 0.05 U
	8/8/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U		< 0.05 U
	12/5/2007	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	**5.0**	**0.065**
	2/26/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.57**	< 0.0042 U
	5/23/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**1.8**	**0.0082**
	8/6/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**1.7**	**0.0082**
	1/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.6**	< 0.05 U
CSXT MW-22	6/25/2007	N	< 1 U	NA	NA	< 10 U	**16**	NA	NA	**4**	< 2 U	**17**	**0.2**
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**9.1**	< 0.05 U
	12/5/2007	N	< 4 U	< 4 U	< 4 U	< 4 U	**3.0 J**	< 4 U	< 80 U	< 4 U	< 12 U	**8.5**	**0.027 J**
	2/26/2008	N	< 1.4 U	< 0.67 U	< 2.4 U	< 1.1 U	**2.6**	< 2.1 U	< 14 U	< 2 U	< 3.7 U	**8.0**	**0.026**
	5/22/2008	N	< 1.4 U	< 0.67 U	< 2.4 U	< 1.1 U	< 1.7 U	< 2.1 U	< 14 U	< 2 U	< 3.7 U	**6.0**	**0.019**
	8/7/2008	N	< 1.4 U	< 0.67 U	< 2.4 U	< 1.1 U	**4.0**	< 2.1 U	< 14 U	< 2 U	< 3.7 U	**3.3**	**0.017**
	3/3/2009	N	**0.22 J**	< 1 U	NA	< 1 U	**2.5**	< 1 U	< 20 U	< 1 U	< 2 U	**7.5**	NA
	9/4/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**8.4**	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	**1.2 J**	< 5 U	< 5 U*	< 5 U	< 10 U	**6.8**	NA
	9/23/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**7.6**	NA
	2/16/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**7.3**	NA
	8/11/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**5.7**	NA
	3/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**7.3**	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**4.8**	< 0.05 U
	1/15/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**4.1**	**0.019 J**
	9/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	**1.9**	< 1 U	< 1 U	< 1 U	< 10 U	**8.5 B**	**0.087**
	3/13/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**6.7 B**	**0.034 JB**
	9/17/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	**0.77 J**	< 10 U	**3.3**	**0.56 J**
	3/26/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**16 B**	**0.085 J**
	9/23/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	**1.7**	< 5 U	**8.1**	< 0.1 U
	3/25/2016	N	**0.84 J**	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**13.0**	< 0.1 U
	9/27/2016	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	**0.97 J**	< 10 U	**11.0**	**0.089 J**
	3/28/2017	N	**0.60 J**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	**0.74 J**	< 10 U	**25.0**	**0.059 J**
	9/12/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	**< 1 U**	< 10 U	**11.0**	**0.11**
	3/23/2018	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	**< 1 U**	< 10 U	**21.0**	**0.055 J**
	9/19/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**6.2**	**0.056 J**
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.49 J**	< 10 U	**8.6**	**< 0.05 U**
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.62 J**	< 10 U	**6.9 ***	**0.110**
	7/1/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.45 J**	< 10 U	**15**	**0.360**
	12/17/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.6**	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**19**	**0.230**
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.71 JB**	**1.6 J**	**11**	**1.3**
	6/17/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.92 J**	< 10 U	**9.2**	**1.2**
CSXT MW-23	2/28/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	**7**	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**6.1**	**0.021**
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.54**	< 0.0042 U
	8/8/2008	N	**1.1**	< 0.17 U	< 0.6 U	< 0.28 U	**61**	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	NA	**0.054**
CSXT MW-24	6/25/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	**3.3**	< 2 U	**< 0**	**0.056**
	12/6/2007	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 20 U	< 1 U	< 3 U	**2.0**	< 0.05 U
	2/28/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.26**	< 0.0042 U
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.26**	< 0.0042 U
	8/11/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.31**	< 0.0042 U
	3/3/2009	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 20 U	< 1 U	< 2 U	**0.58**	NA
	9/8/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.63**	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**0.25**	NA
	2/16/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.62**	NA
	8/11/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**2.3**	NA
	3/27/2012	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	**2.1**	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.3**	< 0.05 U
	9/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.37 B**	< 0.05 U
	3/14/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**0.34**	**0.047 JB**
	9/18/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**0.18 F1**	< 0.1 U
	3/25/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**0.31**	< 0.1 U
	9/25/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**0.54**	< 0.1 U
	3/25/2016	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**0.53**	< 0.1 U
	9/27/2016	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**0.64**	< 0.1 U
	3/29/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**0.64**	< 0.1 U
	9/13/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**0.84**	**0.096 J**
	3/26/2018	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**0.77**	< 0.1 U
	9/18/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.73**	**0.11**
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.600 ***	**0.360 J**
	7/1/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.46 J**	< 10 U	<0.450 U	<0.1 U
	6/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.87 J**	< 10 U	**0.1 J**	**0.074**
CSXT MW-25	6/25/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**3.8**	< 0.05 U
	8/8/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**3.0**	< 0.05 U
	12/4/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	**0.79**	< 0.05 U
	2/26/2008	N	< 1.4 U	< 0.67 U	< 2.4 U	< 1.1 U	< 1.7 U	< 2.1 U	< 14 U	< 2 U	< 3.7 U	**2.0**	< 0.0042 U
	5/22/2008	N	< 1.4 U	< 0.67 U	< 2.4 U	< 1.1 U	< 1.7 U	< 2.1 U	< 14 U	< 2 U	< 3.7 U	**1.9**	< 0.0042 U
	8/8/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**1.8**	**0.0083**
	3/3/2009	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	**2.0**	NA
	9/8/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**8.0**	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U *	< 5 U	< 5 U	< 5 U	< 5 U *	< 5 U	< 10 U	**5.5**	NA
	9/23/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**7.1**	NA
	2/16/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**5.5**	NA
	8/10/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**3.8**	NA
	3/21/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**3.4**	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**4.9**	< 0.05 U
	1/14/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.2**	**0.023 J**
	9/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**2.6 B**	**0.058**
	3/12/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**2.6**	**0.18 B**
	9/17/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**2.7**	< 0.1 U
	3/25/2015	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**2.2**	< 0.1 U
	9/23/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**3.4**	< 0.1 U
	3/25/2016	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	**3.3**	< 0.1 U
	9/27/2016	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**3.7**	< 0.1 U
	3/28/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**3.8**	**< 0.1**
	9/12/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**0.84**	**0.096 J**
	3/23/2018	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	**3.4**	**0.11**
	9/19/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**3.1**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**1.8**	< 0.05 U

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
CSXT MW-25 (continued)	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	2 *	<0.1 U
	7/1/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	1.1	0.089 J
	12/29/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	1.4	0.082 J
	6/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	0.99 J	< 10 U	1.6	0.160
CSXT MW-26	6/25/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	1.1	< 2 U	5.4	0.13
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	13	1.1
	12/6/2007	N	< 1 U	< 1 U	< 1 U	< 1 U	0.58 J	< 1 U	< 20 U	< 1 U	< 3 U	15	0.16 J
	3/4/2009	N	< 1 U	< 1 U	NA	< 1 U	1.4	< 1 U	< 20 U	< 1 U	< 2 U	1 J	NA
CSXT MW-27	6/26/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	6.8	< 0.05 U
	12/7/2007	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	1.5	0.016 J
	2/28/2008	FD	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.68	0.0082
	2/28/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.94	0.0070
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.36	< 0.0042 U
	8/7/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.96	0.0070
CSXT MW-28	2/28/2008	N	11	< 0.17 U	< 0.6 U	1.9	79	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	62	0.19
	8/8/2008	N	3.6	< 0.17 U	< 0.6 U	< 0.28 U	61	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	160	0.26
CSXT MW-29	12/5/2007	N	< 4 U	< 4 U	< 4 U	90	< 4 U	4.4	< 80 U	< 4 U	< 12 U	7.1	0.12
	2/26/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	59	< 0.43 U	3.4	< 3.6 U	< 0.51 U	< 0.93 U	4.1	0.066
	5/23/2008	N	< 0.35 U	0.39	< 0.6 U	88	< 0.43 U	2.7	< 3.6 U	< 0.51 U	< 0.93 U	5.7	0.090
	8/6/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	160 D	< 0.43 U	5.1	4.5	< 0.51 U	< 0.93 U	5.9	0.16
	3/3/2009	N	< 1 U	.82 J	NA	160 J	1.9	3.9	18 J	< 1 U	< 2 U	18	NA
	9/4/2009	N	< 1 U	< 5 U	< 5 U	140	< 5 U	< 5 U	12	< 5 U	< 10 U	2.8	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	66	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	5.9	NA
	2/16/2011	N	< 1 U	< 5 U	< 5 U	61	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	23	NA
	8/10/2011	N	< 1 U	< 1 U	< 1 U	31	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	2.1	NA
	3/26/2012	N	< 1 U	< 1 U	< 1 U	15	< 1 U	< 1 U	20	< 1 U	< 10 U	2.0	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	2.0	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	2.0	< 0.05 U
	1/24/2013	N	< 1 U	< 1 U	< 1 U	3.8	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	29 B	0.025 J
	9/17/2013	N	< 1 U	< 1 U	< 1 U	1.3	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	4.8 B	0.11
	3/14/2014	N	< 1 U	< 1 U	< 1 U	1.5	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	4.7	0.041 JB
	9/17/2014	N	< 1 U	< 1 U	< 1 U	1.2	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	2.1	< 0.1 U
	3/26/2015	N	< 1 U	< 1 U	< 1 U	1.3	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	4 B	< 0.1 U
	9/23/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	3.1	< 0.1 U
	3/25/2016	N	1.7	< 1 U	NA	< 1 U	1.3	< 1 U	< 10 U	< 1 U	1.8 J	1.8	< 0.1 U
	9/27/2016	N	< 1 U	< 1 U	< 1 U	0.76 J	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	2.7	< 0.1
	9/13/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	5.1 J	< 1 U	< 10 U	2.6	0.052 J
	3/23/2018	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	12	0.059 J
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	5.2	<0.1 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	0.43 J	< 10 U	3.8 *	<0.1 U
	7/1/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	3	0.16
CSXT MW-30	12/6/2007	N	< 1 U	1.2	< 1 U	350 E	< 1 U	15	45	< 1 U	< 3 U	2.7	0.28
	8/6/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	7.3	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	4.7	0.0073
	3/3/2009	N	< 1 U	< 1 U	NA	51	< 1 U	1.1	< 20 U	< 1 U	< 2 U	1.9	NA
CSXT MW-31	12/6/2007	N	2.3 J	< 4 U	< 4 U	< 4 U	3.1 J	< 4 U	< 80 U	< 4 U	< 12 U	2.2	0.10
	2/28/2008	N	18	< 0.17 U	< 0.6 U	< 0.28 U	2.8	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	1.4	0.20
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.38	<0.0042 U
	8/6/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	1.0	0.023
CSXT MW-32	12/5/2007	N	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 80 U	< 4 U	< 12 U	190	0.23 J
	2/25/2008	N	< 1.4 U	< 0.67 U	< 2.4 U	< 1.1 U	< 1.7 U	< 2.1 U	37	< 2 U	< 3.7 U	14	0.047
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	2.7	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	7.1	0.026
CSXT MW-33	12/5/2007	N	< 4 U	< 4 U	< 4 U	< 4 U	2.6 J	< 4 U	< 80 U	< 4 U	< 12 U	12	0.064 J
	2/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	9.7	0.017
CSXT MW-35	12/4/2007	N	< 1 U	< 1 U	< 1 U	NA	7.2	< 1 U	< 20 U	< 1 U	< 3 U	0.50	0.013 J
	2/26/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	0.70	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.57	0.0084
	5/22/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	2.5	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.40	0.0076
	8/8/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	0.54	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.28	0.0082
	2/6/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.69	< 0.05 U
CSXT MW-37	12/4/2007	N	< 1 U	< 1 U	< 1 U	NA	2.1	< 1 U	< 20 U	0.61 J	< 3 U	31	0.077
	5/28/2008	FD	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	3.0	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	8.3	0.062
	5/28/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	23	0.056
CSXT MW-38	12/5/2007	N	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 4 U	< 80 U	< 4 U	< 12 U	8.5	0.061 J
CSXT MW-39	12/4/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	3.6 J	< 1 U	< 3 U	0.92	0.010 J
	2/26/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	6.6	< 0.51 U	< 0.93 U	0.33	0.0054
	5/21/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.15	< 0.0042 U
	8/7/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.043 U	< 0.0042 U
CSXT MW-43	12/7/2007	FD	< 1 U	< 1 U	< 1 U	58	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	3.3	0.052 J
	12/7/2007	N	< 1 U	< 1 U	< 1 U	57	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	2.6	0.071 J
	2/29/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	34	< 0.43 U	0.57	< 3.6 U	< 0.51 U	< 0.93 U	0.93	0.029
	5/23/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	56	< 0.43 U	0.95	4.6	< 0.51 U	< 0.93 U	0.83	0.053
	8/11/2008	N	< 0.35 U	0.26	< 0.6 U	85 D	< 0.43 U	1.3	< 3.6 U	< 0.51 U	< 0.93 U	0.84	0.069
	3/4/2009	N	< 1 U	< 1 U	NA	40	< 1 U	0.53 J	< 20 U	< 1 U	< 2 U	0.55 B	NA
	9/3/2009	N	< 1 U	< 5 U	< 5 U	62	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	1.4	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	17	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	1.1	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	17	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	1.1	NA
	9/22/2011	N	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	< 10 U	< 5 U	< 10 U	1.0	< 0.1
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	3.9	NA
	8/9/2011	N	< 1 U	< 1 U	< 1 U	2.0	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.89	NA
	3/23/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	1.5	NA
	9/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	2.6	< 0.05 U
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.98	< 0.05 U
	9/18/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	0.53 B	< 0.05 U
	3/3/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	1.6 B	0.018 JB
	9/18/2014	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.5 F1	< 0.1 U
	3/26/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	0.97 B	< 0.1 U
	9/22/2015	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	0.78	< 0.1 U
	3/24/2016	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 5 U	1.2	< 0.1 U
	9/28/2016	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	1.0	< 0.1 U
	3/29/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	1.8	< 0.1 U
	9/13/2017	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	1.1	< 0.1 U
	3/26/2018	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	1.9	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	1.2	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	1.6	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.840 *	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.28	<0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.52	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	0.58 J	< 10 U	0.750	0.120
CSXT MW-49	12/5/2007	N	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 15 U	7.9	0.16 J

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
CSXT MW-50	12/4/2007	N	< 1 U	< 1 U	< 1 U	NA	0.72 J	< 1 U	< 20 U	< 1 U	< 3 U	5.4	0.031 J
	2/25/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.27	< 0.0042 U
	5/21/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.041 U	< 0.0042 U
	8/11/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.29	< 0.0042 U
CSXT MW-51	12/6/2007	N	< 1 U	3.6	1.2	790 E	< 1 U	32	75	< 1 U	< 3 U	0.64	0.70
	2/25/2008	N	< 0.35 U	6.8	2.8	< 0.28 U	< 0.43 U	56	< 3.6 U	< 0.51 U	< 0.93 U	0.37	1.5
	5/28/2008	N	1.0	2.8	1.3	1100 E	< 0.43 U	24	54	< 0.51 U	< 0.93 U	0.38	0.84
	8/8/2008	N	10	4.7	4.2	800 E	< 0.43 U	44	88	< 0.51 U	< 0.93 U	< 0.045 U	0.47
	3/4/2009	N	< 1 U	3.2	NA	1100 J	< 1 U	22	110	< 1 U	< 2 U	0.17 JB	NA
	9/8/2009	N	< 1 U	< 5 U	< 5 U	69	< 5 U	< 5 U	410	< 5 U	< 10 U	0.49	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	9.6	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	0.22	NA
	9/25/2015	N	< 1 U	<1 U	<1.0 U	3.6	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	0.13	< 0.10 U
	9/23/2010	N	1.0	< 5 U	< 5 U	30	< 5 U	< 5 U	6.9	< 5 U	< 10 U	0.61	NA
	2/16/2011	N	< 1 U	< 5 U	< 5 U	26	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	0.48	NA
	8/10/2011	N	< 1 U	1.8	1.2	34	< 1 U	1.1	120	< 1 U	< 10 U	0.30	NA
	3/26/2012	N	< 1 U	1.8	1.4	27	< 1 U	1.0	110	< 1 U	< 10 U	0.31	NA
	9/25/2012	N	< 1 U	1.0	< 1 U	18	< 1 U	< 1 U	26	< 1 U	< 10 U	0.56	< 0.05 U
	1/14/2013	N	< 1 U	1.1	1.2	12	< 1 U	0.65 J	53	< 1 U	< 10 U	0.12	0.029 J
	9/17/2013	N	< 1 U	0.62 J	< 1 U	7.5	< 1 U	< 1 U	11	< 1 U	< 10 U	0.18 B	0.083
	3/14/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	3.4	< 1.0 U	< 1.0 U	21	< 1.0 U	< 10 U	0.085 J	0.022 JB
	9/18/2014	N	0.38 J	< 1.0 U	< 1.0 U	7.2	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.092 JF1	< 0.1 U
	3/26/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	1.9	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	0.27 B	< 0.1 U
	3/25/2016	N	<1.0 U	<1.0 U	NA	3.0	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	0.15	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	2.7	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	0.18	<0.1 U
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	1.4	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	0.30	<0.1
	9/12/2017	N	< 1 U	< 1 U	< 1 U	1.5	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.20	< 0.1 U
	3/23/2018	N	< 1 U	< 1 U	< 1 U	0.86 J	< 1 U	< 1 U	< 10 U	< 1 U	< 10 U	0.37	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	0.26	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.41	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.150 *	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.130 U	<0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.26	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	0.71 J	< 10 U	< 0.120 U	0.048 J
CSXT MW-52	12/6/2007	N	< 1 U	< 1 U	< 1 U	0.85 J	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	0.90	< 0.05 U
	2/25/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	1.2	0.0058
	5/28/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	1.1	< 0.0042 U
	8/8/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	0.34	< 0.0042 U
CSXT MW-59	1/14/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	150	0.16
	5/21/2013	N	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 10 U	< 2 U	< 20 U	140	0.16
	9/19/2013	N	61	< 1 U	< 1 U	< 1 U	6.4	< 1 U	< 5 U	< 1 U	< 10 U	470 B	1.5 B
	12/26/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	93	0.62 JB
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	110	0.16 B
CST MW-61	6/14/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	18	0.12
	9/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	6.3	< 1 U	< 5 U	< 1 U	< 10 U	18	0.12
	1/14/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	100	0.16
	5/21/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	44	0.13
	9/19/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	2.9	< 1 U	< 5 U	< 1 U	< 10 U	44 B	0.089 B
	12/26/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	30	0.19 B
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	160	0.31 B
	6/10/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.3	< 1.0 U	< 10 U	< 1.0 U	< 10 U	39	0.24
	9/18/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	10	0.18
	6/25/2015	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	16	0.10
	6/25/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	16	0.10
	3/25/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	43	0.34
	3/25/2016	FD	<5.0 U	<5.0 U	NA	<5.0 U	<5.0 U	<5.0 U	<50 U	<5.0 U	<25 U	36	0.16
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	120	0.63
CSXT MW-62	12/26/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	71	< 1.0 U	< 5.0 U	< 1.0 U	4.9 J	120	0.67 B
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	21	< 1.0 U	< 10 U	< 1.0 U	< 10 U	150	0.44 B
	6/10/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	46	< 1.0 U	< 10 U	< 1.0 U	< 10 U	240	0.27
	12/30/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	13	< 1.0 U	< 10 U	< 1.0 U	0.61 J	78	0.39 B
	6/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	41	0.16
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	190	0.42
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	78	0.25
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	81	0.28
CSXT MW-64	4/3/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	15	0.11
	6/14/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	7.6	< 0.05 U
	9/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	13	< 0.05 U
	5/21/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	6.5	< 0.050 U
	9/19/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	8.4 B	0.042 JB
	12/27/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	0.79	0.063 B
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	1.9	0.028 JB
	6/11/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	1.1	< 0.1 U
	9/17/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	4.1	< 0.1 U
	12/30/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	3.0	0.068 B
	3/27/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	1.8 B	< 0.1 U
	6/25/2015	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	1.3	< 0.1 U
	6/25/2015	FD	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	1.2	< 0.1 U
	9/25/2015	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	5.8	< 0.10 U
	9/25/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	5.5	< 0.10 U
	12/29/2015	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5.0	1.0	0.025 JB
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	2.4	<0.1 U
	3/24/2016	FD	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	3.2	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	< 10 U	<1.0 U	< 10 U	6.2	< 0.10 U
	12/20/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	< 10 U	<1.0 U	< 10 U	4.7	<0.1 U
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	4.9	<0.1 U
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	4.4	0.14
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	2.8	0.23
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	3.5	< 0.1 U
	9/19/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	1.9	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.58	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	8.2 *	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.24	<0.1 U
	12/17/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	0.51	<0.1 U
	6/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	0.80 J	< 10 U	1.9	0.052 J
CSXT MW-65	4/3/2012	FD	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	13	0.10
	4/3/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	14	0.14
	6/14/2012	FD	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	9.2	0.12
	6/14/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	9.6	0.11

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
CSXT MW-65 (continued)	9/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	8.0	0.085
	1/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	4	0.092
	5/21/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	6.8	0.057
	9/19/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	12 B	0.072 B
	12/27/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	2.6	0.082 B
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	13	0.083 B
	6/11/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	19	0.14
	9/17/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	7.1	0.37
	3/27/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	7.8 B	0.41
	6/25/2015	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	9.8	< 0.1 U
	9/25/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	40	0.085 J
	12/29/2015	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5.0	21	0.42 B
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	16	0.072 J
	12/20/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	17	0.073 J
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	20.0	0.09 J
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	24	0.20
	9/12/2017	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	32	0.089 J
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	5.2 J	<1.0 U	<10 U	31	0.12
CSXT MW-67	1/15/2013	N	< 1 U	< 1 U	< 1 U	2.1	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	5.6	0.086
	5/21/2013	N	< 1 U	< 1 U	< 1 U	1.1	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	7.4	0.061
	9/18/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	14 B	0.2
	12/26/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	0.84 J	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	15	0.11 B
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	32	0.15 B
	12/30/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3.4	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	41	0.14 B
	3/26/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	15 B	0.43
	6/25/2015	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	15	0.056 J
	12/29/2015	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5.0	37	0.23 B
	3/25/2016	N	<5.0 U	<5.0 U	NA	<5.0 U	<5.0 U	<5.0 U	<50 U	<5.0 U	<25 U	50	0.34
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	170	<0.1 U
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.9	<1.0 U	<10 U	<1.0 U	<10 U	150	0.086 J
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	61	0.22
CSXT MW-68	1/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	6.8	< 1 U	< 5 U	< 1 U	< 10 U	6.0	0.05
	5/21/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	20	0.088
	9/19/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	17 B	0.085 B
	12/27/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.1	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	2.1	0.031 JB
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	3.5	0.05 B
	6/10/2014	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	6.9	< 0.1 U
	6/10/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	6.2	< 0.1 U
	9/17/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	4.6	< 0.1 U
	12/30/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	11	0.15 B
	3/27/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	12 B	< 0.1 U
	6/25/2015	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	3.4	< 0.1 U
	9/25/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	7.2	< 0.10 U
	12/29/2015	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5.0	5.3	0.13 B
	3/25/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	3.4	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	8.2	<0.1 U
	12/20/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	6.9	0.16
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	9.6	<0.1 U
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	5.7	<0.1 U
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	4.5	0.17
CSXT MW-69	1/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	2.3	0.063
	5/21/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	3.3	0.03 J
	9/19/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	6.2 B	0.068 B
	12/27/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	1.3	0.25 B
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	5.0	0.21 B
	6/11/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	5.9	< 0.1 U
	9/18/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	3.5 F1	< 0.1 U
	12/30/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	2.9	0.023 JB
	3/26/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	2.9 B	< 0.1 U
	6/25/2015	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	2.4	< 0.1 U
	9/23/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	4.0	< 0.10 U
	12/29/2015	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5.0	2.9	0.077 B
	12/29/2015	FD	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5.0	3.0	0.048 JB
	3/25/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	3.5	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	6.7	<0.1 U
	9/27/2016	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	11	<0.1 U
	12/20/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	4.3	0.073 J
	12/20/2016	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	4.1	<0.1 U
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	6.9	<0.1 U
	3/28/2017	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	4.8	<0.1 U
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	6.0	<0.1 U
	6/27/2017	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	4.9	<0.1 U
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	2.2	0.075 J
	9/12/2017	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	3.8	<0.1 U
	3/23/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	17	< 0.1 U
	3/23/2018	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	13	< 0.1 U
	9/19/2018	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	9.8	<0.1 U
	9/19/2018	FD	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	11.0	<0.1 U
	3/21/2019	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	10	< 0.05 U
	3/21/2019	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	10	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	15 *	<0.1 U
	9/17/2019	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	8.4 *	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	6.3	0.150
	6/30/2020	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	5.1	0.150
	12/29/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	8.1	0.87
	6/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	0.54 J	< 10 U	3.6	0.980
CSXT MW-70	1/17/2013	N	0.53 J	< 1 U	< 1 U	< 1 U	1.6	< 1 U	< 5 U	1.0	13	0.46	0.091
	5/21/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	1.7	0.03 J
	12/26/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.3	< 1.0 U	< 5.0 U	< 1.0 U	3.9 J	1.5	0.19 B
	3/12/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.1	< 1.0 U	< 10 U	< 1.0 U	2.9 J	4.7	0.15 B
	6/10/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	11	53	0.26
	9/17/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	2.3	< 0.1 U
	12/30/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	3.1	0.074 B
	12/30/2014	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	3.6	0.051 B
	3/26/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	6.9 B	< 0.1 U
	3/26/2015	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	7.2 B	< 0.1 U
	6/25/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	4.9	< 0.10 U
	12/29/2015	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<5.0	13	0.072 B

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
CSXT MW-70 (continued)	3/25/2016	N	**0.51 J**	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**3.2**	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**4.1**	< 0.10 U
	12/20/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**4.0**	**0.051 J**
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**10.0**	<0.1 U
	6/27/2017	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**2.2**	<0.1 U
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.93**	**0.059 J**
CSXT MW-71	12/30/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.38**	**0.038 JB**
	3/26/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.23 B**	< 0.1 U
	6/25/2015	N	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.21**	< 0.1 U
	9/23/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.41**	< 0.10 U
	12/29/2015	N	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**<1.0**	**<5.0**	**0.27**	**0.086 B**
	3/25/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.13**	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.28**	<0.1 U
	12/20/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.40**	<0.1 U
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.27**	<0.1 U
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.21**	<0.1 U
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.18**	<0.1 U
	3/23/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.11**	**0.060 J**
	9/19/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.15**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.15**	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.260 ***	<0.1 U
	7/1/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.130 U	<0.1 U
	12/17/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.130 U	<0.1 U
	6/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.83 J**	< 10 U	< 0.120 U	**0.091 J**
NPS MW-01	12/18/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.18**	< 0.05 U
	2/28/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.45**	< 0.05 U
	5/24/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.25**	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.24**	< 0.05 U
	11/29/2007	N	< 1 U	**1.6**	**1.2**	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.098 U	**0.0073 J**
	3/3/2008	N	< 0.35 U	**0.86**	**0.88**	**2.7**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**1.8**	**0.0064**
	5/21/2008	N	< 0.35 U	< 0.17 U	**0.74**	**2.8**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.16**	**0.0056**
	8/7/2008	N	< 0.35 U	**1.6**	**1.8**	**2.8**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.039 U	**0.0054**
	2/26/2009	N	< 1 U	**0.91 J**	NA	**2.3**	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	< 0.52 U	NA
	9/4/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.57**	NA
	3/10/2010	N	< 1 U	< 5 U	**1.0 J***	**1.7 J**	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**0.62**	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**8.4**	< 5 U	< 10 U	**0.42**	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**5.4**	< 5 U	< 10 U	**1.1**	NA
	8/9/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.34**	NA
	3/23/2012	N	< 1 U	< 1 U	< 1 U	**1.2**	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.0**	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	**1.5**	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.38**	< 0.05 U
	1/15/2013	N	< 1 U	< 1 U	< 1 U	**1.9**	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.13**	< 0.05 U
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.24 B**	**0.015 JB**
	9/18/2013	N	< 1 U	< 1 U	< 1 U	**1.2**	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.24 B**	< 0.05 U
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**.58**	< 0.1 U
	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.43**	< 0.1 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	**0.74 J**	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.48**	< 0.10 U
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.43**	<0.1 U
	9/28/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.78**	<0.1 U
	3/28/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.63**	**<0.1**
	9/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.51**	<0.1 U
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.35**	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.41**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.096 J**	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.290 ***	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.130 U	<0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.23**	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.47 J**	< 10 U	**0.100 J**	< 0.100 U
NPS MW-02	12/14/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.93**	< 0.05 U
	3/1/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.4**	< 0.05 U
	5/25/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.81**	< 0.05 U
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.67**	< 0.05 U
	12/3/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.096 U	< 0.05 U
	2/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.30**	< 0.0042 U
	5/22/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.64**	< 0.0042 U
	8/12/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.46**	< 0.0042 U
	3/4/2009	FD	**< 4 J**	**< 4 J**	NA	**< 4 J**	**< 4 J**	**< 4 J**	**< 80 J**	**< 4 J**	**< 8 J**	**0.49 B**	NA
	3/4/2009	N	**< 4 J**	**< 4 J**	NA	**< 4 J**	**< 4 J**	**< 4 J**	**< 80 J**	**< 4 J**	**< 8 J**	**0.42 J, B**	NA
	9/3/2009	FD	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.3**	NA
	9/3/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.4**	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**1.5**	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.3**	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.2**	NA
	8/9/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.94**	NA
	3/23/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.2**	NA
	9/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.1**	< 0.05 U
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.28**	< 0.05 U
	9/18/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.58 B**	< 0.05 U
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.55 B**	**0.016 JB**
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.56**	< 0.1 U
	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.59**	< 0.1 U
	9/22/2015	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.80**	< 0.10 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.74**	< 0.10 U
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.61**	<0.1 U
	9/28/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.88**	<0.1 U
	9/28/2016	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.87**	<0.1 U
	3/29/2017	FD	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.70**	**<0.1**
	3/29/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.70**	<0.1 U
	9/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.51**	<0.1 U
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.70**	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.9**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.69**	< 0.05 U
	9/16/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.42 J**	< 10 U	**0.570 ***	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.130 J**	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.41**	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.290**	**0.052 J**
NPS MW-03	12/15/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.19**	< 0.05 U
	2/27/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.34**	< 0.05 U
	5/23/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.17**	< 0.05 U
	8/8/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.29**	< 0.05 U
	11/30/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.097 U	< 0.05 U

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
NPS MW-03 (continued)	2/29/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.038 U	< 0.0042 U
	5/20/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.04 U	< 0.0042 U
	8/11/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.043 U	< 0.0042 U
	1/15/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.071 J**	< 0.05 U
NPS MW-04	5/16/2005	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	**30**	NA
	6/6/2006	N	< 1 U	NA	NA	NA	< 5 U	NA	NA	< 1 U	< 2 U	**21**	NA
	12/18/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**10**	**0.17**
	3/2/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**33**	**0.092**
	5/23/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**3.2**	< 0.05 U
	3/3/2008	N	**6.1**	< 0.67 U	< 2.4 U	< 1.1 U	< 1.7 U	< 2.1 U	< 14 U	< 2 U	< 3.7 U	**9.6**	**0.058**
	5/27/2008	N	**16**	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**11**	**0.11**
	8/12/2008	N	**12**	< 0.17 U	< 0.6 U	< 0.28 U	**0.89**	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**2.0**	**0.11**
	3/4/2009	N	**< 4 J**	**< 4 J**	NA	**< 4 J**	**< 4 J**	**< 4 J**	**< 80 J**	**< 4 J**	**< 8 J**	**6.1 B**	NA
	9/3/2009	N	**2.1**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**4.5**	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**5.4**	NA
	9/23/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**3.0**	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**12**	NA
	8/10/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**3.2**	NA
	3/23/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**2.9**	NA
	9/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**5.4**	**0.050**
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**17**	**0.088**
	9/18/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**31 B**	**0.085**
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**7.8 B**	**0.069 B**
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**5.2**	**0.11**
	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**6.8**	< 0.1 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**11**	**0.082 J**
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**3.4**	<0.1 U
	9/28/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**8.8**	**0.078 J**
	3/29/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**14.0**	<0.1 U
	9/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**9.4**	**0.065 J**
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**49**	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**43**	**0.064 J**
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**13**	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**37 ***	**0.061 J**
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.7**	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**22**	**0.910**
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.2**	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**7.2**	**1.10**
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**16**	**4.8**
NPS MW-05	12/15/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.9**	< 0.05 U
	2/28/2007	FD	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.3**	< 0.05 U
	2/28/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.1**	< 0.05 U
	5/23/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.83**	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.91**	< 0.05 U
	11/29/2007	N	< 5 U	< 5 U	< 5 U	NA	< 5 U	< 5 U	< 100 U	< 5 U	< 15 U	< 0.094 U	< 0.05 U
	3/3/2008	FD	< 0.35 U	< 0.17 U	< 0.6 U	**1.8**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.42**	< 0.0042 U
	3/3/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**1.8**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.26**	< 0.0042 U
	5/20/2008	FD	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.039 U	< 0.0042 U
	5/20/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**6.9**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.25**	**0.0066**
	8/7/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**7.0**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.044 U	**0.0054**
	2/26/2009	N	< 1 U	< 1 U	NA	**3.2**	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	< 0.51 U	NA
	9/4/2009	N	< 1 U	< 5 U	< 5 U	**6.6**	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.2**	NA
	3/10/2010	N	< 1 U	< 5 U	< 5 U*	**4.2 J**	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**0.82**	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.1**	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.89**	NA
	8/9/2011	N	< 1 U	< 1 U	< 1 U	**1.1**	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.70**	NA
	3/23/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.62**	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.82**	< 0.05 U
	9/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.34 B**	< 0.50 U
	1/15/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.16**	< 0.05 U
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.31 B**	**0.017 JB**
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.39**	< 0.1 U
	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.53**	< 0.1 U
	3/25/2015	FD	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.36**	< 0.1 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.52**	< 0.10 U
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.44**	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.55**	**0.087 J**
	3/29/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.44**	<0.1 U
	9/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.62**	**0.11**
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.51**	**0.072 J**
	9/18/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.56**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.35**	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.42 J**	< 10 U	**0.420 ***	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.14**	<0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.33**	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**1.3**	< 10 U	**0.250**	**0.052 J**
NPS MW-10	12/15/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.41**	< 0.05 U
	3/1/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.7**	< 0.05 U
	5/22/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.51**	< 0.05 U
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.66**	< 0.05 U
	12/3/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.098 U	< 0.05 U
	2/29/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.50**	< 0.0042 U
	5/22/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.28**	< 0.0042 U
	8/12/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.047 U	< 0.0042 U
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.32**	< 0.05 U
NPS MW-11	12/15/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.43**	< 0.05 U
	3/1/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.77**	< 0.05 U
	5/22/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.37**	< 0.05 U
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.41**	< 0.05 U
	12/3/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.095 U	< 0.05 U
	2/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.04 U	< 0.0042 U
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.038 U	< 0.0042 U
	8/12/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.048 U	< 0.0042 U
NPS MW-12	12/14/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.59**	< 0.05 U
	3/1/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.93**	< 0.05 U
	5/25/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.61**	< 0.05 U
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.56**	< 0.05 U
	11/30/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.097 U	< 0.05 U
	2/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.38**	< 0.0042 U
	5/22/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.25**	< 0.0042 U

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
NPS MW-12	8/12/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.43**	< 0.0042 U
(continued)	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.26**	< 0.05 U
NPS MW-13	12/21/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.53**	< 0.05 U
	2/27/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.65**	< 0.05 U
	5/23/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.42**	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.56**	< 0.05 U
	11/29/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.099 U	< 0.05 U
	2/29/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.26**	< 0.0042 U
	5/20/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.30**	< 0.0042 U
	8/12/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.042 U	< 0.0042 U
	2/26/2009	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	**0.28 J, B**	NA
	9/4/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.74**	NA
	3/10/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**0.57**	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.71**	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.79**	NA
	8/9/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.45**	NA
	3/22/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.53**	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.65**	< 0.05 U
	1/15/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.21**	< 0.05 U
	9/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.26 B**	< 0.05 U
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.34 B**	**0.02 JB**
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.48**	< 0.1 U
	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.68**	< 0.1 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.56**	< 0.10 U
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.61**	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.70**	<0.1 U
	3/29/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.70**	<0.1 U
	9/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.82**	<0.1 U
	3/26/2018	N1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.73**	< 0.1 U
	9/18/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.74**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.56**	< 0.05 U
	9/16/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.41 J**	< 10 U	**0.420 ***	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.130 U	<0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.36**	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.69 J**	< 10 U	**0.220**	**0.049 J**
NPS MW-14	12/14/2006	FD	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**2.3**	< 0.05 U
	12/14/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.7**	< 0.05 U
	3/2/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**2.4**	< 0.05 U
	5/23/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.8**	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.0**	< 0.05 U
	11/29/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.096 U	< 0.05 U
	2/29/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	**0.61**	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.90**	**0.012**
	5/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.88**	**0.020**
	8/11/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**0.54**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.71**	**0.0082**
	2/26/2009	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	**0.64 B**	NA
	9/4/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**2.5**	NA
	3/10/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**2.0**	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.2**	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**3.4**	NA
	8/9/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.0**	NA
	3/22/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.7**	NA
	9/25/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**2.4**	< 0.05 U
	1/15/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.7**	**0.03 J**
	9/17/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**1.0 B**	**0.067**
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**1.2 B**	**0.054 B**
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**1.3**	< 0.1 U
	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UF2	< 10 U	< 1.0 U	< 5.0 U	**0.98**	< 0.1 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**1.6**	< 0.10 U
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**1.2**	<0.1 U
	9/27/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**1.7**	<0.1 U
	3/29/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.86**	<0.1 U
	9/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.94**	<0.1 U
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**1.2**	< 0.1 U
	9/18/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**540**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.33**	< 0.05 U
	9/16/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.48 J**	< 10 U	**1.9 ***	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.120 U	<0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.23**	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.69 J**	< 10 U	< 0.120 U	**0.067 J**
NPS MW-15	12/18/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.8**	< 0.05 U
	3/2/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.8**	< 0.05 U
	5/23/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.0**	< 0.05 U
	8/9/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.5**	< 0.05 U
	11/30/2007	N	< 5 U	< 5 U	< 5 U	NA	< 5 U	< 5 U	< 100 U	< 5 U	< 15 U	**1.0**	**0.029 J**
	2/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.76**	**0.028**
	5/20/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**1.1**	**0.021**
	8/7/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.59**	**0.027**
	1/15/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.49**	**0.053**
NPS MW-16	12/15/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.3**	< 0.05 U
	3/2/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.4**	< 0.05 U
	5/25/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.4**	< 0.05 U
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**1.3**	< 0.05 U
	11/30/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.097 U	< 0.05 U
	2/29/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**0.57**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.28**	**0.0043**
	5/22/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.12**	< 0.0042 U
	5/23/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**0.50**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.57**	< 0.0042 U
	8/12/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	**0.69**	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	**0.46**	< 0.0042 U
	3/4/2009	N	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 2 U	**0.58 B**	NA
	9/3/2009	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.88**	NA
	3/9/2010	N	< 1 U	< 5 U	< 5 U*	< 5 U	< 5 U	< 5 U	< 5 U*	< 5 U	< 10 U	**1.9**	NA
	9/22/2010	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**1.5**	NA
	2/15/2011	N	< 1 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 10 U	**0.53**	NA
	8/9/2011	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.91**	NA
	3/23/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.96**	NA
	9/26/2012	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.56**	< 0.05 U
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.28**	< 0.05 U
	9/18/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.67 B**	< 0.05 U
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.8 B**	**0.015 JB**
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.74**	< 0.1 U

Location ID	Sample Date	Sample Type Code	Benzene (µg/L)	Diisopropyl Ether (µg/L)	ETBE (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	TAME (µg/L)	TBA (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
		CAS No.	71-43-2	108-20-3	637-92-3	1634-04-4	91-20-3	994-05-8	75-65-0	108-88-3	1330-20-7	DROC10-C28	PHC610GRO
NPS MW-16 (continued)	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.77**	< 0.1 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**1.0**	< 0.10 U
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.73**	<0.1 U
	9/28/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.92**	<0.1 U
	3/29/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.80**	<0.1 U
	9/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.94**	<0.1 U
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.77**	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.93**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.62**	< 0.05 U
	9/17/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.49 J**	< 10 U	**0.710 ***	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.24**	<0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.41**	<0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.51 J**	< 10 U	**0.350**	< 0.100 U
NPS MW-17	12/14/2006	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.12**	< 0.05 U
	3/1/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.21**	< 0.05 U
	5/24/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.13**	< 0.05 U
	8/10/2007	N	< 1 U	NA	NA	< 10 U	< 5 U	NA	NA	< 1 U	< 2 U	**0.17**	< 0.05 U
	11/30/2007	N	< 1 U	< 1 U	< 1 U	NA	< 1 U	< 1 U	< 20 U	< 1 U	< 3 U	< 0.097 U	< 0.05 U
	2/27/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.038 U	< 0.0042 U
	8/12/2008	N	< 0.35 U	< 0.17 U	< 0.6 U	< 0.28 U	< 0.43 U	< 0.53 U	< 3.6 U	< 0.51 U	< 0.93 U	< 0.044 U	< 0.0042 U
	1/16/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.1**	< 0.05 U
NPS MW-18	9/18/2013	N	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 5 U	< 1 U	< 10 U	**0.24 B**	< 0.05 U
	12/26/2013	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 10 U	**0.082 J**	**0.025 JB**
	3/13/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.26 B**	**0.017 JB**
	9/16/2014	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.33**	< 0.1 U
	3/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.36**	< 0.1 U
	6/25/2015	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 5.0 U	**0.34**	< 0.1 U
	9/22/2015	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.41**	< 0.10 U
	12/29/2015	N	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**<1.0**	**<5.0**	**0.37**	**0.033 JB**
	3/24/2016	N	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<5.0 U	**0.35**	<0.1 U
	9/28/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.55**	<0.1 U
	9/28/2016	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.44**	<0.1 U
	3/29/2017	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.42**	<0.1 U
	6/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.50**	<0.1 U
	9/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.47**	<0.1 U
	3/26/2018	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	<1.0 U	<10 U	<1.0 U	<10 U	**0.36**	< 0.1 U
	9/20/2018	N	<1 U	<1 U	NA	<1 U	<1 U	<1 U	<10 U	<1 U	<10 U	**0.450**	<0.1 U
	3/21/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.32**	< 0.05 U
	9/16/2019	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**0.54 J**	< 10 U	**0.350 ***	<0.1 U
	6/30/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	<0.140 U	< 0.1 U
	12/18/2020	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	< 1.0 U	< 10 U	**0.27**	< 0.1 U
	6/17/2021	N	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 10 U	**1.2**	< 10 U	**0.22**	< 0.100 U

Notes:

Values in boldface type exceed applicable GNCSG.

mg/L - miligrams per liter

µg/L - micrograms per liter

<1U - concentration is less than the reporting limit

B - Constituent was detected in a laboratory method blank

F1 - MS and/or MSD Recovery is outside acceptance limits

GNCSG - Generic Numeric Cleanup Standards for Groundwater.

J* - Concentration is estimated

NA - Not Analyzed

TPH - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

MDE MEAT GNCSG - Maryland Environmental Assessment Technology for Leaking Underground Storage Tanks (Revised February 2003).