

SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: APRIL 1, 2022 THROUGH JUNE 30, 2022

HARMON RAILROAD YARD
OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between April 1, 2022 and June 30, 2022 at the Harmon Railroad Yard OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

Metro-North Railroad (MNR) received a letter titled “2020 Site Management Plan Status Reports” from the New York State Department of Environmental Conservation (NYSDEC), dated May 7, 2021. This letter included comments and requests for additional information based on a review of the SMP status reports submitted in 2020. Responses to some of these comments/requests were discussed in previous status reports. In addition, a document titled *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 was submitted to the NYSDEC via email on August 26, 2021. This document presents actions proposed to address other comments/requests in the May 7, 2021 letter including evaluation of the extent of free product and develop options to limit off-site free product migration. Comments were received from the NYSDEC regarding the Corrective Measures Work Plan on March 8, 2022. A response was provided to the NYSDEC on April 19, 2022.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the results of this monitoring, are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured in May 2022 (i.e., May 13, 2022 to May 26, 2022) is included as Figure 1. As shown on Figure 1, groundwater flow generally is to the north. There are apparent localized sinks and mounds, potentially due to other factors such as the possible plugging of the well screens (e. g., V-1, VE4-11, FA4-17, FA4-15, FA4-13, etc.). [Note: An updated elevation survey was completed on July 12, 2022. The revised elevation survey measurements will be incorporated into groundwater contour figures presented in future status reports.]

FREE PRODUCT REMOVAL RECORDS: During the report period, Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product) were used to remove free product in wells RW-1, FA4-8, and AI2-3; and a bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product. [Note: A Spill Buster™ was formerly located in well FA4-17. However, it was removed during a previous report period and a portable Spill Buddy™ was used to remove free product from this well during the current report period.]

A Spill Buster™ was installed in well AI2-3 in November 2016, and subsequent to its installation approximately 128 gallons of free product was removed in 2016, approximately 301 gallons of free product was removed in 2017, approximately 120 gallons of free product was removed in 2018, and approximately 116 gallons of free product was removed in 2019 from this well. Between January 1, 2020 through September 30, 2020, approximately 8.2 gallons of free product was removed from well AI2-3. However, between October 1, 2020 and June 30, 2021, no free product was removed from well AI2-3. Between July 1, 2021 and September 30, 2021, approximately 47.4 gallons of free product was removed from well AI2-3; between October 1, 2021 and December 31, 2021, approximately 2.6 gallons of free product was removed from well AI2-3; between January 1, 2022 and March 31, 2022, approximately 26.8 gallons of free product was removed from well AI2-3; and, between April 1, 2022 and June 30, 2022, approximately 1 gallon of free product was removed from well AI2-3. The reason for the varying/decreasing amounts of free product removed from well AI2-3 is not known.

The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and March 31, 2022) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses, and the amount of free product removed from select wells during the current report period (i.e., between April 1, 2022 and June 30, 2022) and the preceding report period (i.e., between January 1, 2022 and March 31, 2022) is included as Figure 2. The total amount of free product removed in the current reporting period (i.e., between April 1, 2022 and June 30, 2022) was approximately 44 gallons. The majority of the free product was removed from OU-II-L4 (i.e., approximately 39.42 gallons). The total amount of free product removed in the previous reporting period (i.e., between January 1, 2022 and March 30, 2022) was approximately 126 gallons. Since January 1, 2013, approximately 4,720 gallons of free product or approximately 118 gallons has been removed per reporting period (i.e., every three months).

The free product removed is placed in 55-gallon drums, which are stored in a waste accumulation area. Samples were not collected from full 55-gallon drums during the current report period, and drums were not removed from the Site for off-site disposal.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since PCBs have not been detected in samples of free product removed from OU-II wells at concentrations greater than 50 parts per million (ppm) since August 26, 2002, MNR requested that further disposal of free product collected from OU-II wells be disposed of as non-hazardous petroleum waste provided that waste characterization testing confirms PCB concentrations below 50 ppm. In the event a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the drum would be disposed of as a TSCA regulated waste. NYSDEC approved this request in a letter dated January 4, 2019.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and August 2021 (the most recent sampling event) is included in the tables listed below for reference purposes.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);

- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is scheduled to be completed in August 2022. During this event, samples are scheduled to be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples are scheduled to be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.]

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during this report period for these wells are provided in Attachment A. As shown, during the weekly monitoring completed during the report period, free product was observed in monitoring wells OUII-A, OUII-B, OUII-D, and OUII-F. [Note: The amount of free product detected in off-site monitoring well OUII-A was limited (i.e., thicknesses of 0.03 ft. or less).] Free product was not detected in wells OUII-C or OUII-E. Table 8 shows the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date and Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been detected in off-site well OUII-E. As shown on Figure 3, the average amount of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

Hydrographs depicting the groundwater elevation corrected for the presence of free product measured in each off-site monitoring well are provided in Attachment C. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs the amount of free product detected appears to decrease when the groundwater elevation increases.

AREA L1 SHEET PILE WALL WELLS: Monitoring well WB-9 is located at the southern terminus of the sheet pile wall installed along the western boundary of Area L1 and monitoring well SP-North is located at the northern terminus of the sheet pile wall in Area L1 (refer to Figure 1). Routine monitoring of WB-9 commenced on November 16, 2016, and on October 4, 2016 for SP-North to evaluate the potential for free product to migrate around the sheet pile wall. To date, free product has only been detected on two occasions in SP-North (i.e., a reported thickness of 0.03 ft. on March 15, 2017, and a reported thickness of 0.11 ft. on March 20, 2020). The validity of these reported free product thickness measurements is questionable (e.g., free product has not been detected in well SP-North subsequent to the March 20, 2020 monitoring event). To date, free product has not been detected in WB-9. The static water level and free product thickness records completed during this report period for these wells are provided in Attachment A.

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on May 19, 2022 by MNR.

During the May 19, 2022 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Although some work was completed during the previous report periods, additional scrap metal needs to be removed from locations within OU-II on top of the capped area.

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. A copy of the inspection report completed on May 19, 2022 was included in the status report completed for the previous report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between July 1, 2022 and September 30, 2022), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). It is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. If it is determined that a previously installed Spill Buster™ is functional in a well, but that limited free product remains in that location, the Spill Buster™ will be removed and installed in a well with higher levels of free product (e.g., FA4-9, FA4-18, or VE4-5). Free product remaining in the well where the Spill Buster™ was removed should be collected using a portable Spill Buddy™. Free product detected in wells not containing a Spill Buster™ system should be removed using a portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted Well AI2-3 should be evaluated and/or cleaned/developed if necessary.

Note: If 0.2 feet, or more, of free product is encountered in a 4-inch diameter, or larger on-site well, or 0.5 ft. or more of free product is measured in on-site wells less than 4-inches in diameter; it should be removed using a Spill Buddy™ or a bailer. If 0.2 feet, or more, of free product is encountered in any off-site monitoring well (i.e., OUII-A through OUII-F) it should be removed using a bailer or other appropriate method.

In the event free product drums are filled during the next reporting period, samples should be collected and tested, as outlined in the SMP. Following testing, full free product drums should be transported off the Site and disposed of in accordance with applicable regulations. [Note: If PCB concentrations are below 50 ppm, the drum contents will be disposed of as a non-hazardous petroleum waste. If a PCB concentration in excess of 50 ppm is detected in a free product accumulation drum, the contents of the free product drum will be disposed of as a TSCA regulated waste.]

As shown on Figure 1, based on the static water levels measured during this report period groundwater elevations in some wells were variable and inconsistent with nearby wells. [Note: An updated elevation survey was completed on July 12, 2022. The revised elevation survey measurements will be incorporated into upcoming groundwater contour figures. In addition, select monitoring wells may be redeveloped and evaluated to assess if they are functioning properly. If necessary, monitoring wells deemed to not be functioning properly, and not capable of being repaired, will be abandoned and may be replaced.]

The next OU-I/OU-II inspection is due on or about October 31, 2022. The next groundwater sampling and testing will be completed on, or about, August 31, 2022. A SMP status report for the work completed during the upcoming period (i.e., July 1, 2022 through September 30, 2022) will be submitted in October 2022.

If free product is identified in either WB-9 or SP-North additional measurements should be made on subsequent days. In the event free product is confirmed, the free product should be removed with a bailer, and the well(s) checked in subsequent days to assess the presence of free product and the need for additional remedial measures.

If additional comments are received from the NYSDEC on the *Corrective Measures Work Plan, NAPL Remediation Operational Unit II – L4 NAPL Area, Harmon Railroad Yard, Westchester County, New York, NYSDEC Site No. 3-60-010* dated August 2021 during the upcoming period, the work plan should be revised, if appropriate, and the work described in the work plan should be initiated.

A PRR for the reporting period January 1, 2022 through January 1, 2025, will be submitted on, or before, January 31, 2025.

Tables

Table 1:	Free Product Removal Totals: April 1, 2022 through June 30, 2022
Table 2:	Historic Free Product Removal Totals: December 1, 2012 through March 31, 2021
Table 3:	Summary of VOCs: Groundwater Samples
Table 4:	Summary of SVOCs: Groundwater Samples
Table 5:	Summary of PCBs: Groundwater Samples
Table 6:	Summary of Metals: Groundwater Samples
Table 7:	Summary of Emerging Contaminants: Groundwater Samples
Table 8:	Off-Site Wells Static Water Levels and Range of Free Product Thickness

Figures

Figure 1:	Groundwater Contour Map: May 2022
Figure 2:	Summary of Free Product Removal for the Report Periods April 1, 2022 – June 30, 2022 and January 1, 2022 – March 31, 2022
Figure 3:	Average Thickness of Free Product in Off-Site Wells by Report Period

Attachments

Attachment A:	Well Monitoring Logs and Free Product Removal Records: April 1, 2022 through June 30, 2022
Attachment B:	Off-Site Monitoring Well Hydrographs

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TABLES

Table 1

**Harmon Railroad Yard
OU-I and OU-II
Westchester County, New York
Site No. 3-60-010**

**Free Product Removal Totals
Current Report Period: April 1, 2022 through June 30, 2022**

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	2.06
Total	2.06

OU II					
Free Product AREA L1		Free Product AREA L2		Free Product AREA L4	
Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed
AI1-1	0	AI2-2	0	DAY-1	0
AI1-4	0	AI2-3*	1.0	FA4-8*	6.4
AI1-8	0	VE2-1	0	FA4-9	0
AI1-11	0	Total	1	FA4-10	NM
AI1-12	0	Free Product AREA L3		FA4-11	0
AI1-15	0	AI3-4	0	FA4-12	0
AI1-16	0	AI3-5	NM	FA4-13	0
AI1-17	0	AI3-6	0	FA4-14	4.38
SP-North	0	VE3-1	0	FA4-15	1.25
VE1-1	1.25	Total	0	FA4-16	0.88
VE1-2	0			FA4-17	5.39
VE1-3	0			FA4-18	2.76
VE1-4	0			FA4-19	NM
WB-9	0			FA4-20	0
Total	1.25			FA4-21	0
				FA4-23	0
				PGW-2	0.25
				RW-1*	16.8
				VE4-1	0
				VE4-5	1.31
				VE4-6	0
				VE4-7	0
				VE4-8	0
				VE4-9	0
				VE4-10	0
				VE4-11	0
				VE4-12	0
				VE4-13	NM
				Total	39.42

NM = Not measured

*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

Free product was removed from other locations using a portable Spill Buddy™

Table 2

Harmon Railroad Yard
 OU-I and OU-II
 Westchester County, New York
 Site No. 3-60-010

Historic Free Product Removal Totals (i.e., Prior to Current Report Period)
 December 1, 2012 - March 31, 2022

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	159.87
Total	189.365

OU II					
Free Product AREA L1		Free Product AREA L2		Free Product AREA L4	
Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed
AI1-1	0.03	AI2-2	1.63	DAY-1	0
AI1-4	0.04	AI2-3	948.03	FA4-8	577.66
AI1-8	0.06	VE2-1	0	FA4-9	3.48
AI1-11	0.122	Total	949.66	FA4-10	0.13
AI1-12	0.18			FA4-11	143.77
AI1-15	0.38			FA4-12	10.92
AI1-16	0			FA4-13	101.8
AI1-17	9.14			FA4-14	269.01
VE1-1	20.24			FA4-15	78.47
VE1-2	0.01			FA4-16	70.23
VE1-3	0.1			FA4-17	76.82
VE1-4	0			FA4-18	109.75
Total	30.232			FA4-19	0
				FA4-20	0
				FA4-21	0.54
				FA4-23	1.17
				PGW-2	22.58
				RW-1*	1701
				VE4-1	0
				VE4-5	214.2
				VE4-6	2.26
				VE4-7	0.08
				VE4-8	2.92
				VE4-9	9.41
				VE4-10	4.93
				VE4-11	1
				VE4-12	0
				VE4-13	0
				Total	3402.13

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																																						
		VE 1-2												VE 1-4										VE 2-1																
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21		
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.10]	ND [0.10]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.10]	ND [0.10]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]		
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]		
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]		
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]		
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	NT	NT	NT	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	NT	NT	NT	ND [10]	ND [10]	ND [10]	1.3 J, B	1.3 J, B	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	NT	NT	NT	NT		
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]		
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]		
p-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.13]	ND [0.13]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]		
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [1.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.32]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]				
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.21]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]		
sec-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]		
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.26]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]		
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	23.7	ND [0.20]	0.56 J	ND [0.12]	ND [0.22]	
Xylenes, Total	5	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]		

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																																							
		VE 3-1												VE 4-11										DAY 1																	
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/2019	6/3/2020	8/26/2021			
1,2,4-Trimethylbenzene	5	3.4 J	2.6 J	ND [5.0]	5.1	5.1	3.60	6.4	3.9	4.5	5.2	3.6	7.60	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]
1,3,5-Trimethylbenzene	5	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.14]	ND [0.14]	ND [0.25]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	0.25 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.10]	ND [0.10]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	
Chlorobenzene	5	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]		
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.080]	ND [0.080]	ND [0.18]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.13]	ND [0.13]	ND [0.23]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.070]	ND [0.070]	ND [0.22]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]
Naphthalene	10	5.6 J, B	6.6 J	ND [10]	9.9 J	10	9.00	9.4	6.2	8	NT	NT	NT	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [2.0]	NT	NT	NT	ND [10]	ND [10]	ND [10]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	
n-Butylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	ND [0.12]	ND [0.12]	ND [0.19]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [2.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J
p-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [5.0]	ND [5.																										

Table 3
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
1,2,4-Trimethylbenzene	5	ND [0.20]	ND [0.20]	ND [0.20]	2	1.4
1,3,5-Trimethylbenzene	5	ND [0.25]	ND [0.25]	ND [0.25]	1.7	0.53 J
Benzene	1	ND [0.18]	ND [0.18]	ND [0.18]	0.25 J	0.53 J
Chlorobenzene	5	ND [0.17]	ND [0.17]	ND [0.17]	1.2	ND [0.17]
Ethylbenzene	5	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]	ND [0.18]
Isopropylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]
Methyl tert-butyl ether (MTBE)	10	ND [0.22]	ND [0.22]	ND [0.22]	NS [0.22]	ND [0.22]
n-Butylbenzene	5	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]	ND [0.19]
n-Propylbenzene	5	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]	ND [0.24]
o-Xylene	5	ND [0.19]	ND [0.19]	ND [0.19]	0.64 J	1.9
p- & m- Xylenes	NS	ND [0.32]	ND [0.32]	1.5 J	0.47 J	0.43 J
p-Isopropyltoluene	NS	ND [0.21]	ND [0.21]	ND [0.21]	0.27 J	ND [0.21]
sec-Butylbenzene	5	ND [0.23]	ND [0.23]	ND [0.23]	ND [0.23]	0.29 J
tert-Butylbenzene	5	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]	ND [0.26]
Toluene	5	ND [0.22]	ND [0.22]	0.45 J	0.44 J	0.46 J
Xylenes, Total	5	ND	ND	1.5	1.11	2.33

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated concentration.

B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Data users should consider anything <10x the blank value as artifact.

BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																																			
		VE 1-2														VE 1-4											VE 2-1										
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.30]	ND [1.90]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.30]	ND [1.90]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.30]	ND [1.90]	ND [2.20]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.30]	ND [1.90]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0615	ND [2.30]	ND [1.90]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.30]	ND [1.90]	ND [2.00]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.30]	ND [1.80]	ND [2.00]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.30]	ND [1.80]	ND [2.00]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.30]	ND [1.80]	ND [2.00]
Chrysene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.133	ND [2.40]	ND [1.90]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [1.90]	ND [2.30]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]
Indeno(1,2,3-cd)pyrene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [3.30]	ND [3.20]	ND [2.60]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [3.30]	ND [3.20]	ND [2.60]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [3.30]	ND [3.20]	ND [2.60]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	NT	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	NT	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50]	ND [1.40]	ND [1.90]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.40]	ND [1.90]

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																											
		VE 3-1														VE 4-11													
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	8/24/2021		
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]		
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]			
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.00]	4.40 J	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]		
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]		
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.238	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.0821	ND [2.30]	ND [1.90]	ND [2.20]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.30]	ND [1.90]	ND [2.20]		
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]		
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.275	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.0718	ND [2.30]	ND [1.90]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.30]	ND [1.90]	ND [2.00]		
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]		
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.262	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.0718	ND [2.30]	ND [1.80]	ND [2.00]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.30]	ND [1.80]	ND [2.00]		
Chrysene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.250	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.185	ND [2.40]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [1.90]	ND [2.30]		
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]		
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]		
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	9.31	4.50 J	ND [4.0]	31.7	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]			
Indeno(1,2,3-cd)pyrene	0.002	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0																		

Table 4
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
2-Methylnaphthalene	NS	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Acenaphthene	20	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Acenaphthylene	NS	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]	ND [2.10]
Anthracene	50	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Benzo(a)anthracene	0.002	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(g,h,i)perylene	NS	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(k)fluoranthene	0.002	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Chrysene	0.002	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Dibenzo(a,h)anthracene	NS	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]	ND [2.30]
Fluoranthene	50	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Fluorene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	3.60
Indeno(1,2,3-cd)pyrene	0.002	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]	ND [2.60]
Naphthalene	10	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]	ND [1.90]
Phenanthrene	50	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]	ND [2.20]
Pyrene	50	ND [1.90]	ND [1.90]	ND [1.90]	2.20 J	ND [1.90]

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

BOLD TYPE indicates the concentration or reporting limit exceeds the groundwater standard or guidance value

Table 5
 NYSDEC Site #360010
 Harmon Yard Waste Water Area
 OU II

Summary of Polychlorinated Biphenyls
 Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location																																			
		VE 1-2														VE 1-4										VE 2-1											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.0961]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																								
		VE 3-1										VE 4-11														
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/27/18	9/11/19	6/3/20	8/25/21	3/27/12	9/11/12	9/11/12 DUH	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21
Aroclor 1016	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]
Aroclor 1221	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]
Aroclor 1232	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]
Aroclor 1242	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]
Aroclor 1248	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]
Aroclor 1254	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.291	ND [0.11]	ND [0.12]
Aroclor 1260	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]
Aroclor 1262	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]
Aroclor 1268	NS	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]
Total PCBs	0.09	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.103]	0.914	0.711	0.0747	0.291	ND	ND

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																		
		DAY 1								Field Blank										
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND

Notes:
 All results and groundwater standards/guidance values are in parts per billion (ppb)
 (1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.
 ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets
 NS = No Standard
BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

Table 5
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date											
		OUII-A	OUII-C	OUII-D	OUII-E	OUII-F	FA4-9	FA4-11	FA4-16	PGW-2	VE4-7	VE4-9	
		8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/26/21	8/24/21	8/24/21	8/24/21	8/24/21	8/25/21	8/24/21
Aroclor 1016	NS	ND [0.13]	ND [0.13]	ND [0.91]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.41]	ND [0.13]	ND [0.13]
Aroclor 1221	NS	ND [0.14]	ND [0.14]	ND [0.99]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.45]	ND [0.14]	ND [0.14]
Aroclor 1232	NS	ND [0.17]	ND [0.17]	ND [1.20]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.17]	ND [0.54]	ND [0.17]	ND [0.17]
Aroclor 1242	NS	ND [0.12]	ND [0.12]	ND [0.84]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.38]	ND [0.12]	ND [0.12]
Aroclor 1248	NS	ND [0.12]	ND [0.12]	ND [0.87]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.39]	ND [0.12]	ND [0.12]
Aroclor 1254	NS	14.7 D	ND [0.12]	8.30 P	ND [0.12]	2.00 P	ND [0.12]	0.89 P	10	2.1	0.35 JP	ND [0.12]	
Aroclor 1260	NS	ND [0.11]	ND [0.11]	ND [0.76]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.34]	ND [0.11]	ND [0.11]
Aroclor 1262	NS	ND [0.12]	ND [0.12]	ND [0.84]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.38]	ND [0.12]	ND [0.12]
Aroclor 1268	NS	ND [0.16]	ND [0.16]	ND [1.20]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.16]	ND [0.53]	ND [0.16]	ND [0.16]
Total PCBs	0.09	14.7	ND	8.3	ND	2	ND	0.89	10	2.1	ND	ND	

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

BOLD TYPE indicates the concentration exceeds the groundwater standard for total PCBs

P = Indicates >25% difference for detected concentrations between the two GC columns

J = Estimated Value

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																							
		VE 1-2												VE 1-4											
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	36.5	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	139 N*	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	28.2	20.7	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	6060 N	48	57.3	5.01 J	5.31 J	22.3
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	1690	14.7*	17.8	14.4	20.7	3.55 J

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																								
		VE 2-1													VE 3-1											
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81]	NF [0.81]	1.25 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	4.92 J	4.47 J	1.68 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70	3.97 J	7.86 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18	9.64	6.33

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																								
		VE 4-11													DAY 1											
		3/27/12	9/11/12	11/2012 D	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81]	0.92 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	9.00 J	5.53 J	8.21 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 J	3.40 J	1.98 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4	2.39 J	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date									
		Field Blank									
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81]	ND [0.74]	
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25]	ND [1.64]	

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 6
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date				
		OUII-C	OUII-E	VE4-7	VE4-9	FA4-9
		8/24/21	8/24/21	8/25/21	8/25/21	8/26/21
Arsenic	25	ND [4.13]	ND [4.13]	ND [4.13]	ND [4.13]	9.04 J
Chromium	50	ND [0.74]	4.55 J	1.93 J	1.39 J	3.49 J
Copper	200	2.40 J	7.31 J	19.1	3.78 J	1.84 J
Lead	25	ND [1.64]	ND [1.64]	ND [1.64]	ND [1.64]	1.83 J

Notes:

All results and groundwater standards/guidance values are in parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

N = Indicates the spiked sample recovery is not within control limits

* = Indicates that the duplicate analysis is not within control limits

Table 7
Emerging Contaminant Testing
Harmon OU-2

Compound	Guidance Values ¹	Test Location and Sample Date														
		VE 1-2		VE 1-4						VE 2-1						
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12	19	19	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19
Perfluorooctanoic acid (PFOA)	10	5.2	29	50	51.3	15	44	43	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorododecanoic acid (PFDDA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	24	3.4	5.4	ND [10]	ND [10]	11	14	41
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *	1.7 *	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *
Perfluorooctanesulfonic acid (PFOS)	10	37	62	43	63.3	34	71	73	55	16	21	42.9	38.2	56	60	81
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *	[0.42]	ND [1.2]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND * [0.41]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	54 J B CI	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *	24 *	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8 J	21	22	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2]	ND [9.2]	42
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *	3.1 *	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [1.7]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.83]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	62.7	16	21	42.9	38.2	60.4	66.9	104
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	12	92.7	93.47	24	3.4	5.4	0	0	11	14	248.21
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	NT	ND [200]	ND [200]	ND [200]	ND [200]	ND [90]	ND [90]	ND [100]

Compound	Guidance Values ¹	Test Location and Sample Date											Equipment Blank	
		VE 3-1		VE 4-11					DAY 1	Field Blank				
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/2/17	2017	2018	FB91119	FB6420		FB-082621
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctanoic acid (PFOA)	10	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 J I	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorododecanoic acid (PFDDA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctanesulfonic acid (PFOS)	10	14	7.2	4.2	ND [10]	5.2	6.1 J	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.42]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorobutanoic acid (PFBA)	100	2200 B CI	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	2000 B CI	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [1.7]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *	4600 CI	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2]	ND [0.42]	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.42]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 F1 *	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3]	ND [1.7]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	1.7 J B	2.0 J B
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.85]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [0.85]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [0.51]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.42]
PFOA & PFOS		19.6	7.2	4.2				7.5	34	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)		3.3	39	15	10.5	6.8	184.91	5.4	ND	ND	ND	ND	1.7	1.7
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41	46.8	ND	ND	ND	ND	1.7	1.7
1,4-Dioxane		NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	NT	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)
ND [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

CI = The peak identified in the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias

* Per- and polyfluoroalkyl substances (PFAS) guidance values, as specified in the NYSDEC document titled *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs*, dated January 2021

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

* = LCS and/or LCSID is outside acceptance limits, low biased

Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

Off-Site Monitoring Wells (OUII-A to OUII-F)
Depth to Static Water Levels and Range of Free Product Thickness

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-0.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-0.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-8.25	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008

Note:

Depth to Static Water Level in feet above mean sea level corrected for the presence of Free Product based on the following relationship:
 Corrected SWL (ft. bgs) = Measured SWL (ft. bgs) - 0.85 x Measured Free Product Thickness (ft.)

FIGURES



NOTES:

1. This drawing was prepared from a CAD base file provides by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONTROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1.

LEGEND:

- VE 4-6 (8.41 ft)
Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made May 2022
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0
Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

PROJECT MANAGER	RLK	DATE	08-2022
DRAWN BY	CPS	DATE DRAWN	08-2022
SCALE	As Noted	DATE ISSUED	08-04-2022

day
DAY ENGINEERING, P.C.
 ENVIRONMENTAL ENGINEERING CONSULTANTS
 ROCHESTER, NEW YORK 14606

Project Title
**METRO-NORTH RAIL ROAD
 HARMON YARD OPERABLE UNITS OU-I AND OU-II
 CROTON-ON-HUDSON, NEW YORK**

Drawing Title
PERIODIC REVIEW REPORT

Project No.
22-3636M

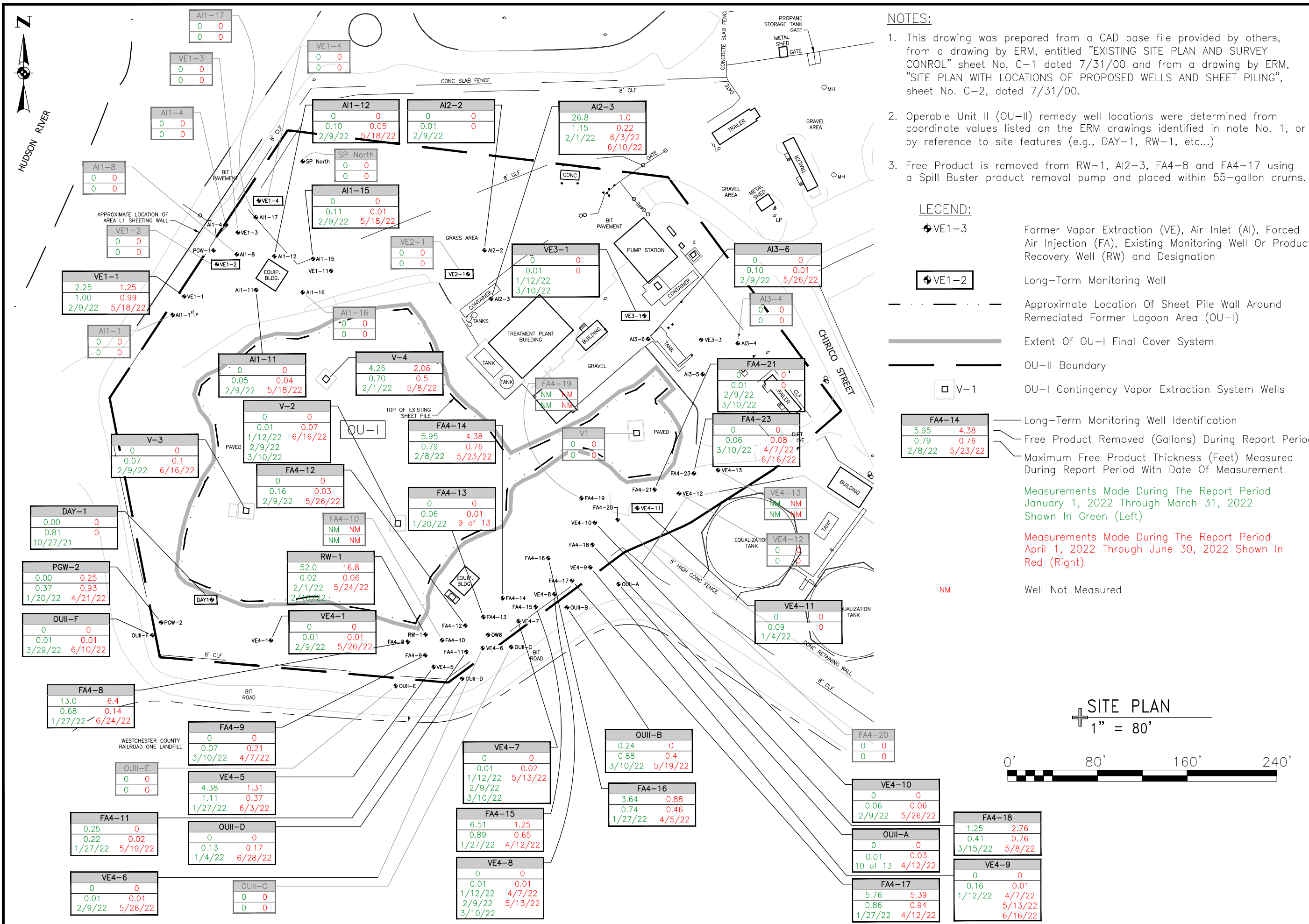
Groundwater Contour Map: May 2022



FIGURE 1

Ref1: Xerox432AnsiB-2; 11 x 17
 Ref2: Layout Name: Layout1
 Ref3: Pen Setting File: 800psHalfColorBeacon.ctb

Time Plotted: Monday, July 25, 2022 3:51:25 PM
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\WAPL Wells Period Apr-June 2022.dwg



NOTES:

1. This drawing was prepared from a CAD base file provided by others, from a drawing by ERM, entitled "EXISTING SITE PLAN AND SURVEY CONROL" sheet No. C-1 dated 7/31/00 and from a drawing by ERM, "SITE PLAN WITH LOCATIONS OF PROPOSED WELLS AND SHEET PILING", sheet No. C-2, dated 7/31/00.
2. Operable Unit II (OU-II) remedy well locations were determined from coordinate values listed on the ERM drawings identified in note No. 1, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. Free Product is removed from RW-1, AI2-3, FA4-8 and FA4-17 using a Spill Buster product removal pump and placed within 55-gallon drums.

LEGEND:

- | |
|-------|
| VE1-3 |
|-------|

 Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- | |
|-------|
| VE1-2 |
|-------|

 Long-Term Monitoring Well
- | |
|-------------------|
| --- (dashed line) |
|-------------------|

 Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- | |
|------------------------|
| --- (thick solid line) |
|------------------------|

 Extent Of OU-I Final Cover System
- | |
|-----------------------|
| --- (thin solid line) |
|-----------------------|

 OU-II Boundary
- | |
|-----|
| V-1 |
|-----|

 OU-I Contingency Vapor Extraction System Wells
- | |
|----------------|
| FA4-14 |
| 5.95 4.38 |
| 0.79 0.76 |
| 2/8/22 5/23/22 |

 Long-Term Monitoring Well Identification
- | |
|----------------|
| 5.95 4.38 |
| 0.79 0.76 |
| 2/8/22 5/23/22 |

 Free Product Removed (Gallons) During Report Period
 Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement
- | |
|-----------------|
| 0.01 0.07 |
| 1/12/22 6/16/22 |

 Measurements Made During The Report Period January 1, 2022 Through March 31, 2022 Shown In Green (Left)
- | |
|----------------|
| 0.06 0.08 |
| 3/10/22 4/7/22 |

 Measurements Made During The Report Period April 1, 2022 Through June 30, 2022 Shown In Red (Right)
- NM Well Not Measured

SITE PLAN
 1" = 80'



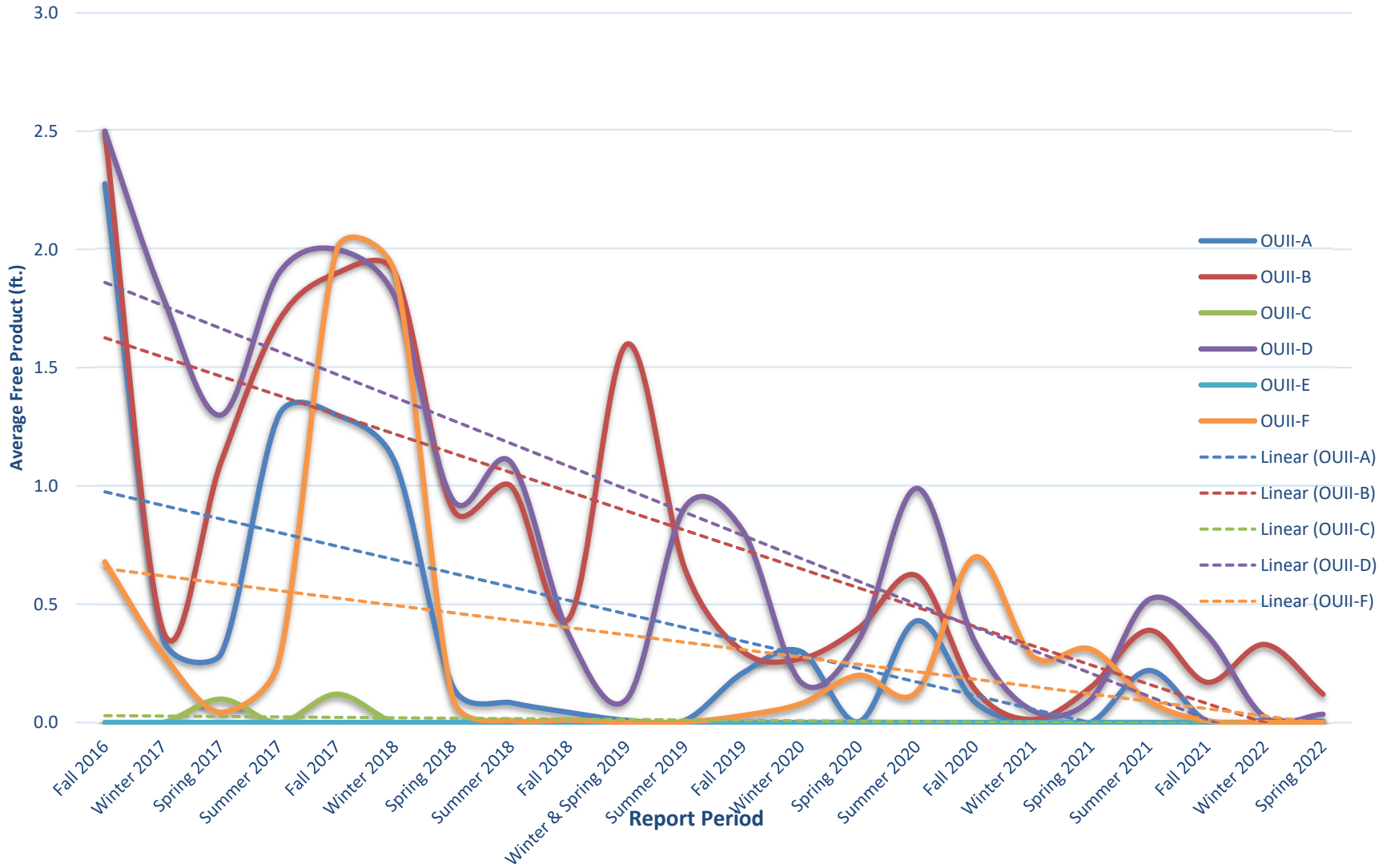
PROJECT MANAGER	DATE
HMM	7/2022
DRAWN BY	DATE DRAWN
RJM/CPS/TW	7/25/2022
SCALE	DATE ISSUED
As Noted	7/25/2022

day
 DAY ENGINEERING, P.C.
 ENVIRONMENTAL ENGINEERING CONSULTANTS
 ROCHESTER, NEW YORK 14606
 NEW YORK, NEW YORK 10170

PROJECT TITLE
**METRO-NORTH RAILROAD
 HARMON YARD OPERABLE UNITS OU-I AND OU-II
 CROTON-ON-HUDSON, NEW YORK**
 DRAWING TITLE
**NYSDEC SITE #360010
 Summary Of Free Product Removal For The Report Periods
 January - March 2022 and April - June 2022**

PROJECT NO.
 22-3652M
FIGURE 2

Figure 3: Average Thickness and Trendline of Free Product in Off-Site Wells by Report Period



ATTACHMENT A

**Well Monitoring Logs and Free Product Removal Records
April 1, 2022 through June 30, 2022**

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	12.91	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	13.02	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	13.74	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	13.24	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	1.78	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured; well blocked					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	13.32	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	12.48	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	12.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: P10		Diameter: 2 in.	
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	12.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: V-1		Diameter: 4 in.	
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	-	12.55	0	0	
5/13/2022	-	12.22	0	0	
6/16/2022	-	12.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: V-2	Diameter: 4 in.		
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	13	13.02	0.02	0	
5/13/2022	12.48	12.49	0.01	0	
6/16/2022	12.45	12.52	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I)		Well ID: V-3	Diameter: 4 in.		
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	12.55	12.56	0.01	0	
5/13/2022	12.05	12.06	0.01	0	
6/16/2022	12.05	12.15	0.1	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	11.89	12.07	0.18	0	
4/12/2022	11.29	11.33	0.04	0	
4/21/2022	11.19	11.35	0.16	0	
4/29/2022	11.12	11.29	0.17	0	
5/8/2022	11.35	11.85	0.5	0.56	
5/13/2022	11.3	11.48	0.18	0	
5/19/2022	11.38	11.61	0.23	0.75	
5/23/2022	11.71	11.89	0.18	0	
6/3/2022	11.45	11.79	0.34	0.5	
6/10/2022	11.37	11.55	0.18	0	
6/16/2022	11.4	11.55	0.15	0	
6/24/2022	11.4	11.5	0.1	0	
6/28/2022	11.55	11.88	0.33	0.25	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	10.98	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	10.11	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	13.12	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: A11-11 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	13.65	13.69	0.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	17.85	17.9	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	18.28	18.29	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: A11-16 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	13.48	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: A11-17 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	11.92	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	-	8.99	0	0	
4/12/2022	-	8.33	0	0	
4/21/2022	-	8.37	0	0	
4/29/2022	-	8.25	0	0	
5/8/2022	-	9.21	0	0	
5/13/2022	-	8.44	0	0	
5/19/2022	-	8.63	0	0	
5/23/2022	-	8.71	0	0	
6/3/2022	-	8.35	0	0	
6/10/2022	-	8.87	0	0	
6/16/2022	-	8.61	0	0	
6/24/2022	-	8.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	6.64	7.63	0.99	1.25	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	7.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	6.33	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	8.18	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	8.54	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	10.88	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-3 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/5/2022	14.95	15.11	0.16	0	Drum-0.15
4/12/2022	14.55	14.6	0.05	0	Drum- 0.19
4/21/2022	14.55	14.72	0.17	0	Drum-0.15
4/29/2022	14.38	14.39	0.01	0	Drum-0.20
5/8/2022	14.78	14.85	0.07	0	Drum-0.20
5/13/2022	14.86	14.98	0.12	0	Drum-0.19
5/18/2022	14.99	15.11	0.12	0	
5/19/2022	14.99	15.11	0.12	0	Drum-0.18
5/23/2022	15.3	15.44	0.14	0	Drum-0.18
6/3/2022	14.79	15.01	0.22	0	Drum-0.19
6/10/2022	14.81	15.03	0.22	0	Drum-0.19
6/16/2022	14.88	15	0.12	0	Drum-0.19
6/24/2022	14.98	15.12	0.14	0	Drum-0.19
6/28/2022	16.05	16.1	0.05	0	Drum-0.21

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/29/2022 stated '0.16 ft'. Approximately 1 gallon of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	10.88	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	-	13.68	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: A13-5 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	16.5	16.51	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	13.71	13.72	0.01	0	
5/13/2022	-	8.38	0	0	
6/16/2022	-	8.42	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	-	15.08	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/5/2022	15.88	15.89	0.01	0	Drum-1.26
4/12/2022	15.12	15.13	0.01	0	Drum- 1.26
4/21/2022	15.12	15.13	0.01	0	Drum-1.25
4/29/2022	15.05	15.06	0.01	0	Drum-1.26
5/8/2022	15.95	15.96	0.01	0	Drum-1.25
5/13/2022	15.92	15.93	0.01	0	Drum-1.33
5/19/2022	16.22	16.23	0.01	0	Drum-1.36
5/23/2022	16.22	16.23	0.01	0	Drum-1.34
6/3/2022	15.94	15.95	0.01	0	Drum-1.41
6/10/2022	15.94	15.95	0.01	0	Drum-1.41
6/16/2022	16.17	16.18	0.01	0	Drum-1.41
6/24/2022	12.32	12.46	0.14	0	
6/28/2022	16.4	16.42	0.02	0	Drum-1.45

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/29/2022 stated 'drum 1.13 ft'. Total amount of Free Product Recovered = 6.4 gallons from pump

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	6.25	6.46	0.21	0	
5/13/2022	6.79	6.83	0.04	0	
6/16/2022	7.05	7.21	0.16	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	10.24	10.25	0.01	0	
4/12/2022	9.83	9.84	0.01	0	
4/21/2022	9.82	9.83	0.01	0	
4/29/2022	9.68	9.69	0.01	0	
5/8/2022	10.5	10.51	0.01	0	
5/13/2022	10.49	10.5	0.01	0	
5/19/2022	10.79	10.81	0.02	0	
5/23/2022	10.88	10.89	0.01	0	
5/26/2022	10.95	10.96	0.01	0	
6/3/2022	10.19	10.2	0.01	0	
6/10/2022	10.43	10.44	0.01	0	
6/16/2022	10.65	10.66	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	13.88	13.91	0.03	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	9.28	9.29	0.01	0	
4/12/2022	0	8.89	0	0	
4/21/2022	8.98	8.99	0.01	0	
4/29/2022	8.85	8.86	0.01	0	
5/8/2022	9.65	9.66	0.01	0	
5/13/2022	9.72	9.73	0.01	0	
5/19/2022	10.05	10.06	0.01	0	
5/23/2022	10.15	10.16	0.01	0	
5/26/2022	10.19	10.2	0.01	0	
6/3/2022	0	9.6	0	0	
6/10/2022	9.76	9.77	0.01	0	
6/16/2022	0	9.95	0	0	
6/24/2022	0	10.14	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	12.34	12.99	0.65	0	
4/12/2022	12.03	12.05	0.02	0	
4/21/2022	11.92	11.95	0.03	0	
4/29/2022	11.9	11.92	0.02	0	
5/8/2022	12.42	13	0.58	0.5	
5/13/2022	12.86	12.94	0.08	0	
5/19/2022	12.69	13.3	0.61	0.5	
5/23/2022	12.75	13.51	0.76	0.75	
6/3/2022	12.34	13.08	0.74	0.88	
6/10/2022	12.49	13.08	0.59	1	
6/16/2022	12.65	13.08	0.43	0.75	
6/24/2022	12.88	13.03	0.15	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	9.01	9.17	0.16	0	
4/12/2022	8.5	9.15	0.65	1.25	
4/21/2022	8.51	8.55	0.04	0	
4/29/2022	8.45	8.5	0.05	0	
5/8/2022	9.15	9.33	0.18	0	
5/13/2022	9.23	9.38	0.15	0	
5/19/2022	9.51	9.58	0.07	0	
5/23/2022	9.61	9.62	0.01	0	
5/26/2022	9.61	9.62	0.01	0	
6/3/2022	9.11	9.22	0.11	0	
6/10/2022	9.28	9.35	0.07	0	
6/16/2022	9.45	9.48	0.03	0	
6/24/2022	9.62	9.63	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	13.42	13.88	0.46	0.38	
4/12/2022	12.92	13.22	0.3	0.5	
4/21/2022	12.91	13.06	0.15	0	
4/29/2022	12.75	12.81	0.06	0	
5/8/2022	13.39	13.46	0.07	0	
5/13/2022	13.48	13.53	0.05	0	
5/19/2022	10.08	10.25	0.17	0	
5/23/2022	15.81	15.91	0.1	0	
6/3/2022	13.53	13.59	0.06	0	
6/10/2022	13.58	13.69	0.11	0	
6/16/2022	13.72	13.84	0.12	0	
6/24/2022	13.96	13.99	0.03	0	
6/28/2022	14.16	14.21	0.05	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	9.62	10.48	0.86	0.63	
4/12/2022	9.14	10.08	0.94	1.13	
4/21/2022	9.09	9.76	0.67	1	
4/29/2022	9	9.03	0.03	0	
5/8/2022	9.76	10.13	0.37	0	
5/13/2022	9.83	10.15	0.32	0	
5/19/2022	13.78	13.81	0.03	0	
5/23/2022	10.14	10.51	0.37	0.75	
6/3/2022	9.79	10.31	0.52	0.88	
6/10/2022	9.91	10.28	0.37	1	
6/16/2022	10.05	10.22	0.17	0	
6/24/2022	10.24	10.29	0.05	0	
6/28/2022	10.32	10.49	0.17	0	

Spill Buster™ formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	11.86	12.02	0.16	0.63	
4/12/2022	11.36	11.46	0.1	0	
4/21/2022	11.38	11.45	0.07	0	
4/29/2022	11.35	11.45	0.1	0	
5/8/2022	11.82	12.58	0.76	1.25	
5/13/2022	11.98	12.11	0.13	0	
5/19/2022	12.47	12.52	0.05	0	
5/23/2022	12.25	12.81	0.56	0.5	
6/3/2022	11.96	12.09	0.13	0	
6/10/2022	12.01	12.18	0.17	0	
6/16/2022	12.14	12.32	0.18	0	
6/24/2022	16.21	16.23	0.02	0	dRUM-1.41
6/28/2022	12.65	13	0.35	0.38	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/18/2022	-	11.52	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	-	12.65	0	0	
5/13/2022	-	12.88	0	0	
6/16/2022	-	12.72	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	12.45	12.53	0.08	0	
5/13/2022	12.49	12.5	0.01	0	
6/16/2022	12.55	12.63	0.08	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	4.91	5.01	0.1	0	
4/12/2022	4.18	4.55	0.37	0	
4/21/2022	4.15	5.08	0.93	0.25	
4/29/2022	4.12	4.13	0.01	0	
5/8/2022	5.55	5.56	0.01	0	
5/13/2022	5.32	5.33	0.01	0	
5/19/2022	5.88	5.89	0.01	0	
5/23/2022	6.14	6.21	0.07	0	
6/3/2022	4.81	4.96	0.15	0	
6/10/2022	5.38	5.39	0.01	0	
6/16/2022	5.91	5.92	0.01	0	
6/24/2022	6.22	6.59	0.37	0	
6/28/2022	6.7	6.87	0.17	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: RW-1 Diameter: 6 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/5/2022	14.08	14.09	0.01	0	Drum-0.37
4/12/2022	13.68	13.69	0.01	0	Drum-0.32
4/21/2022	13.71	13.72	0.01	0	
4/29/2022	13.65	13.66	0.01	0	Drum-0.38
5/8/2022	14.21	14.22	0.01	0	Drum-0.38
5/13/2022	14.12	14.13	0.01	0	
5/19/2022	14.36	14.39	0.03	0	Drum-0.48
5/23/2022	14.38	14.4	0.02	0	Drum-0.58
5/24/2022	9.93	9.99	0.06	0	
6/3/2022	14.12	14.13	0.01	0	Drum-0.8
6/10/2022	14.17	14.19	0.02	0	Drum-0.82
6/16/2022	14.35	14.36	0.01	0	Drum-0.92
6/24/2022	14.3	14.31	0.01	0	Drum-0.99
6/28/2022	14.42	14.62	0.2	0	Drum-1.22

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 3/29/2022 stated 'drum 0.38 ft'. Total amount of Free Product Recovered = 16.8 gallons.

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	6.22	6.23	0.01	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	8.55	8.73	0.18	0	
4/12/2022	8.13	8.24	0.11	0	
4/21/2022	8.11	8.47	0.36	0.81	
4/29/2022	8	8.12	0.12	0	
5/8/2022	8.64	8.69	0.05	0	
5/13/2022	8.64	8.69	0.05	0	
5/19/2022	8.92	8.96	0.04	0	
5/23/2022	8.88	8.93	0.05	0	
6/3/2022	8.55	8.92	0.37	0.5	
6/10/2022	8.63	8.64	0.01	0	
6/16/2022	8.77	8.82	0.05	0	
6/24/2022	8.91	8.92	0.01	0	
6/28/2022	8.99	9.15	0.16	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	6.01	6.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	4.6	4.61	0.01	0	
5/13/2022	5.21	5.23	0.02	0	
6/16/2022	-	5.49	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	4.85	4.86	0.01	0	
5/13/2022	5.45	5.46	0.01	0	
6/16/2022	-	5.41	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/7/2022	7.65	7.66	0.01	0	
5/13/2022	5.81	5.82	0.01	0	
6/16/2022	5.98	5.99	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	10.35	10.41	0.06	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	-	11.24	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
5/26/2022	-	11.55	0	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	7.23	7.24	0.01	0	
4/12/2022	6.89	6.92	0.03	0	
4/21/2022	-	6.78	0	0	
4/29/2022	-	7.09	0	0	
5/8/2022	7.5	7.51	0.01	0	
5/13/2022	-	7.79	0	0	
5/19/2022	-	7.8	0	0	
5/23/2022	-	7.94	0	0	
6/3/2022	7.44	7.45	0.01	0	
6/10/2022	-	7.61	0	0	
6/16/2022	-	7.64	0	0	
6/24/2022	-	7.94	0	0	
6/28/2022	-	8.45	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	7.24	7.29	0.05	0	
4/12/2022	6.95	7.01	0.06	0	
4/21/2022	6.88	6.95	0.07	0	
4/29/2022	7.18	7.31	0.13	0	
5/8/2022	7.58	7.87	0.29	0	
5/13/2022	7.81	7.92	0.11	0	
5/19/2022	7.85	8.25	0.4	0	
5/23/2022	-	7.93	0	0	
6/3/2022	7.48	7.53	0.05	0	
6/10/2022	7.68	7.69	0.01	0	
6/16/2022	7.91	7.97	0.06	0	
6/24/2022	7.98	8.11	0.13	0	
6/28/2022	8.03	8.2	0.17	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	-	6.68	0	0	
4/12/2022	-	6.36	0	0	
4/21/2022	-	6.34	0	0	
4/29/2022	-	7.89	0	0	
5/8/2022	-	7.28	0	0	
5/13/2022	-	7.61	0	0	
5/19/2022	-	7.62	0	0	
5/23/2022	-	7.78	0	0	
6/3/2022	-	7.03	0	0	
6/10/2022	-	7.39	0	0	
6/16/2022	-	7.83	0	0	
6/24/2022	-	7.8	0	0	
6/28/2022	-	7.89	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)		Comments
4/5/2022	-	6.46	0	0	
4/12/2022	-	6.41	0	0	
4/21/2022	-	6.39	0	0	
4/29/2022	-	6.64	0	0	
5/8/2022	-	7.78	0	0	
5/13/2022	-	8.06	0	0	
5/19/2022	-	8.11	0	0	
5/23/2022	-	8.28	0	0	
6/3/2022	7.31	7.32	0.01	0	
6/10/2022	7.7	7.79	0.09	0	
6/16/2022	8.18	8.24	0.06	0	
6/24/2022	8.21	8.34	0.13	0	
6/28/2022	8.28	8.45	0.17	0	

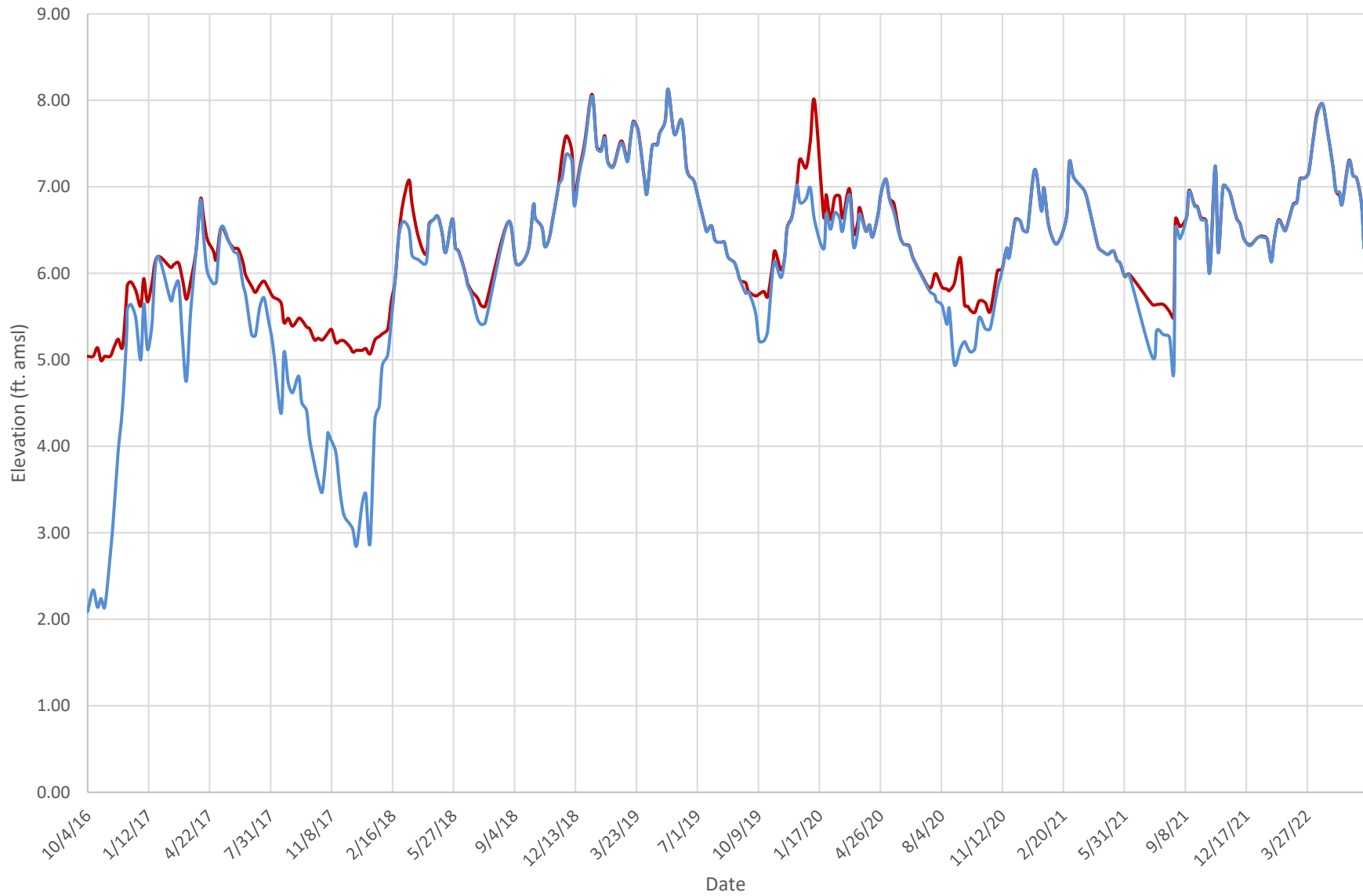
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	-	7.49	0	0	
4/12/2022	-	7.13	0	0.25	
4/21/2022	-	7.28	0	0	
4/29/2022	-	7.34	0	0	
5/8/2022	-	7.84	0	0	
5/13/2022	-	8.09	0	0	
5/19/2022	-	8.05	0	0	
5/23/2022	-	8.12	0	0	
6/3/2022	-	7.65	0	0	
6/10/2022	-	7.73	0	0	
6/16/2022	-	8.01	0	0	
6/24/2022	-	8.04	0	0	
6/28/2022	-	8.18	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/5/2022	-	3.64	0	0	
4/12/2022	-	3.41	0	0	
4/21/2022	-	3.38	0	0	
4/29/2022	-	3.84	0	0	
5/8/2022	-	4.78	0	0	
5/13/2022	-	5.19	0	0	
5/19/2022	-	5.18	0	0	
5/23/2022	-	5.42	0	0	
6/3/2022	-	4.02	0	0	
6/10/2022	4.63	4.64	0.01	0	
6/16/2022	-	5.51	0	0	
6/24/2022	-	5.55	0	0	
6/28/2022	-	5.74	0	0	

ATTACHMENT B

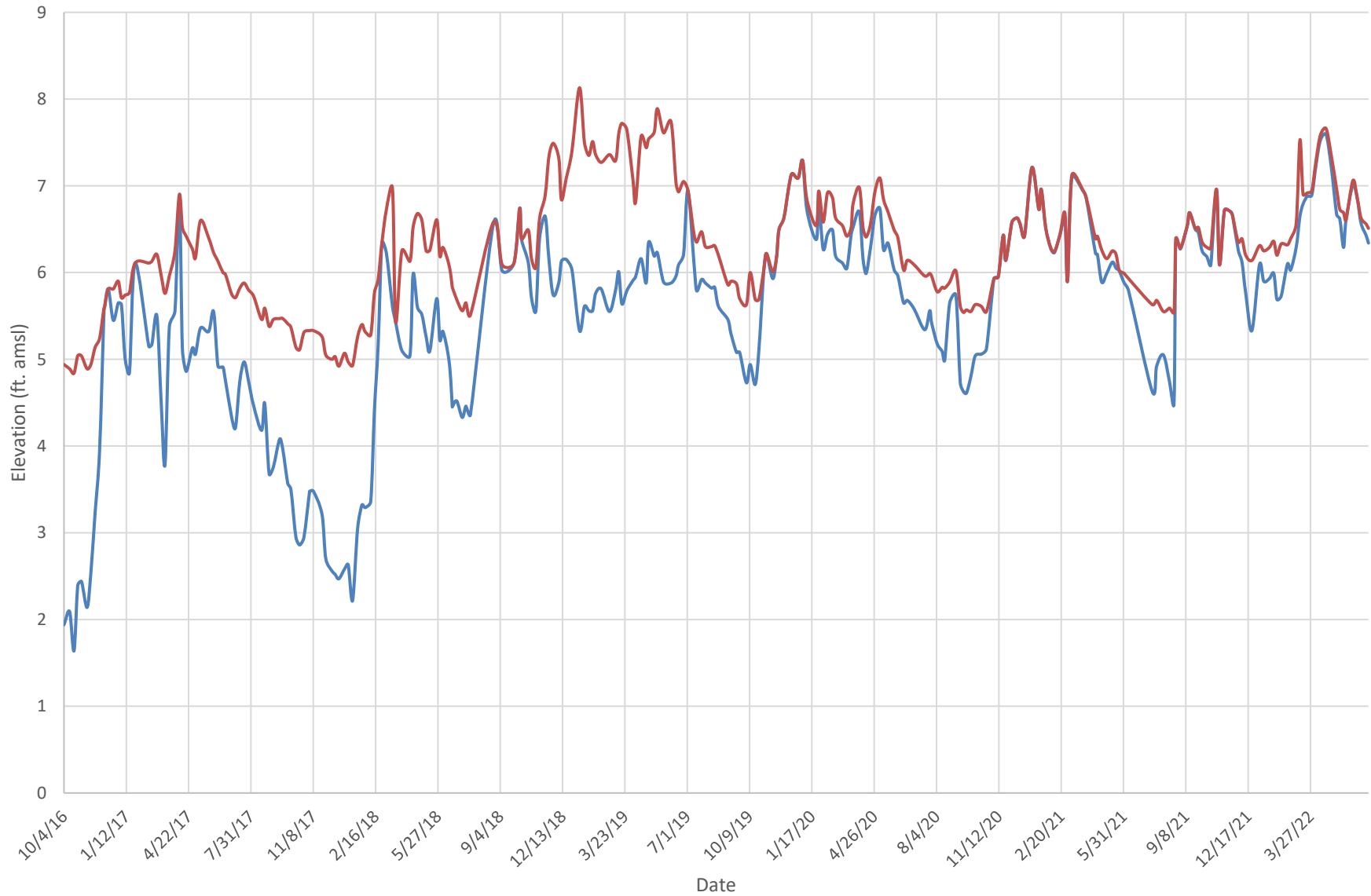
Off-Site Monitoring Well Hydrographs

OUII-A Hydrograph



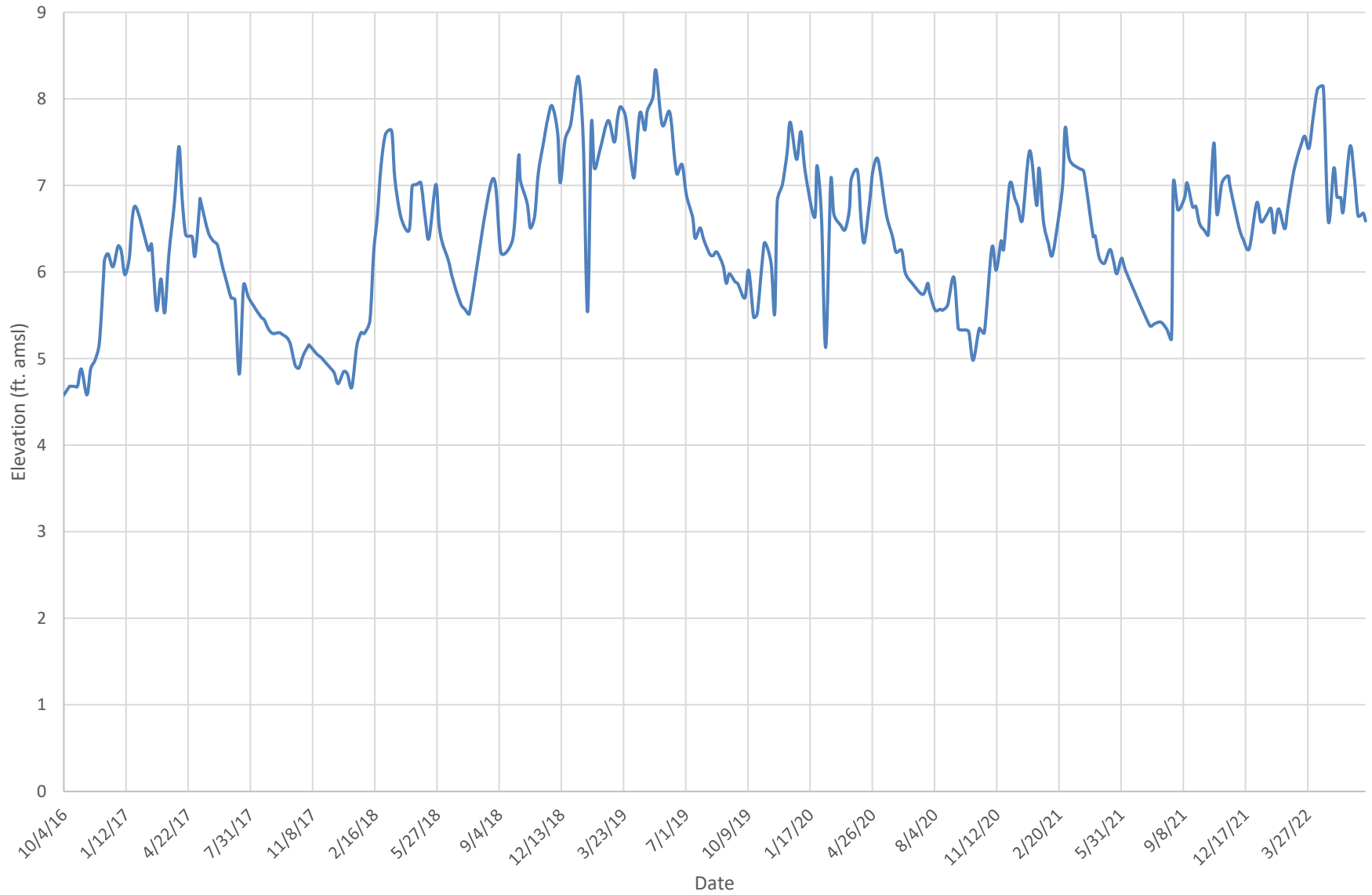
— Free Product Elevation — Groundwater Elevation

OUII-B Hydrograph



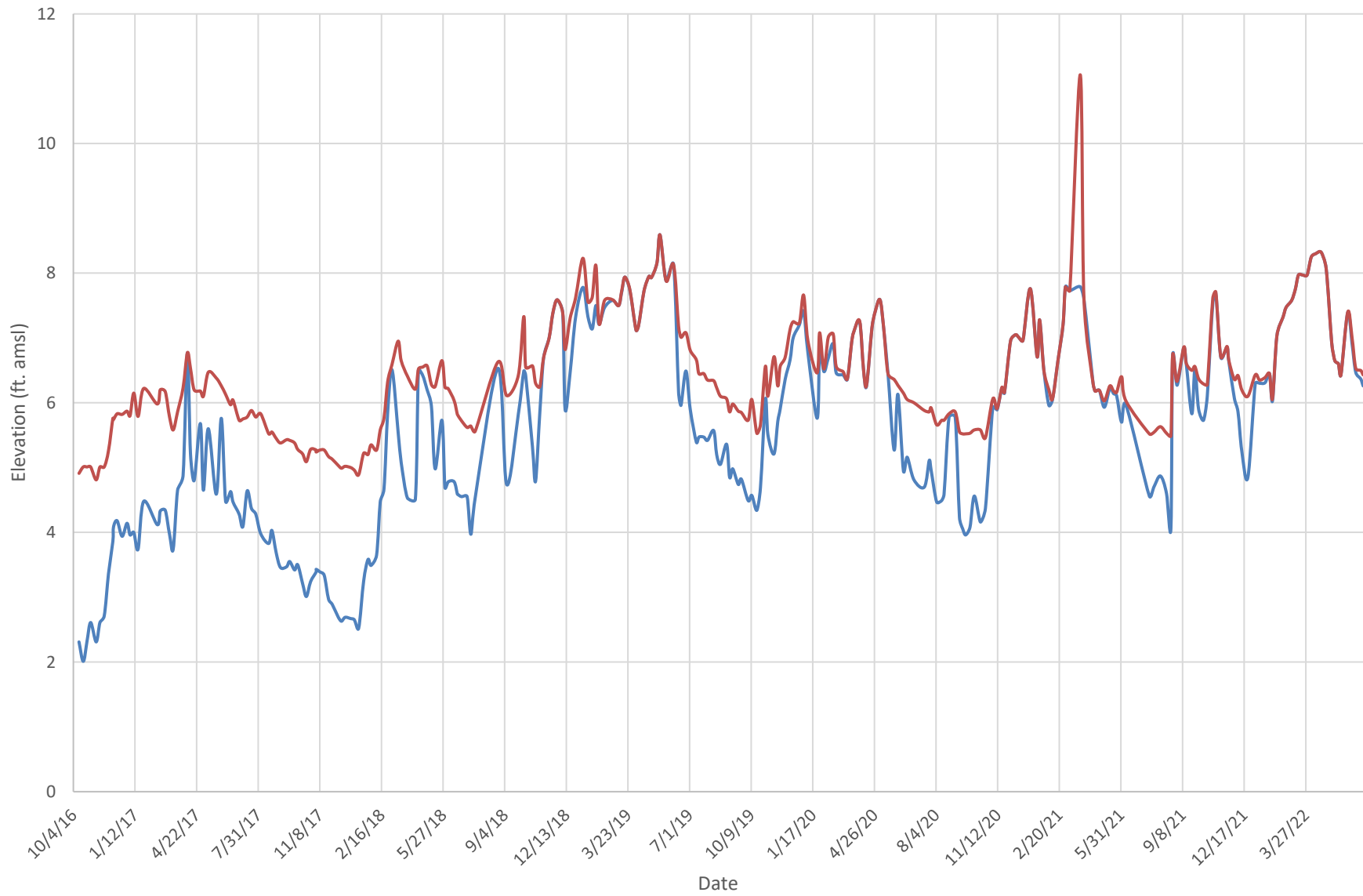
— Groundwater Elevation — Free Product Elevation

OUII-C Hydrograph



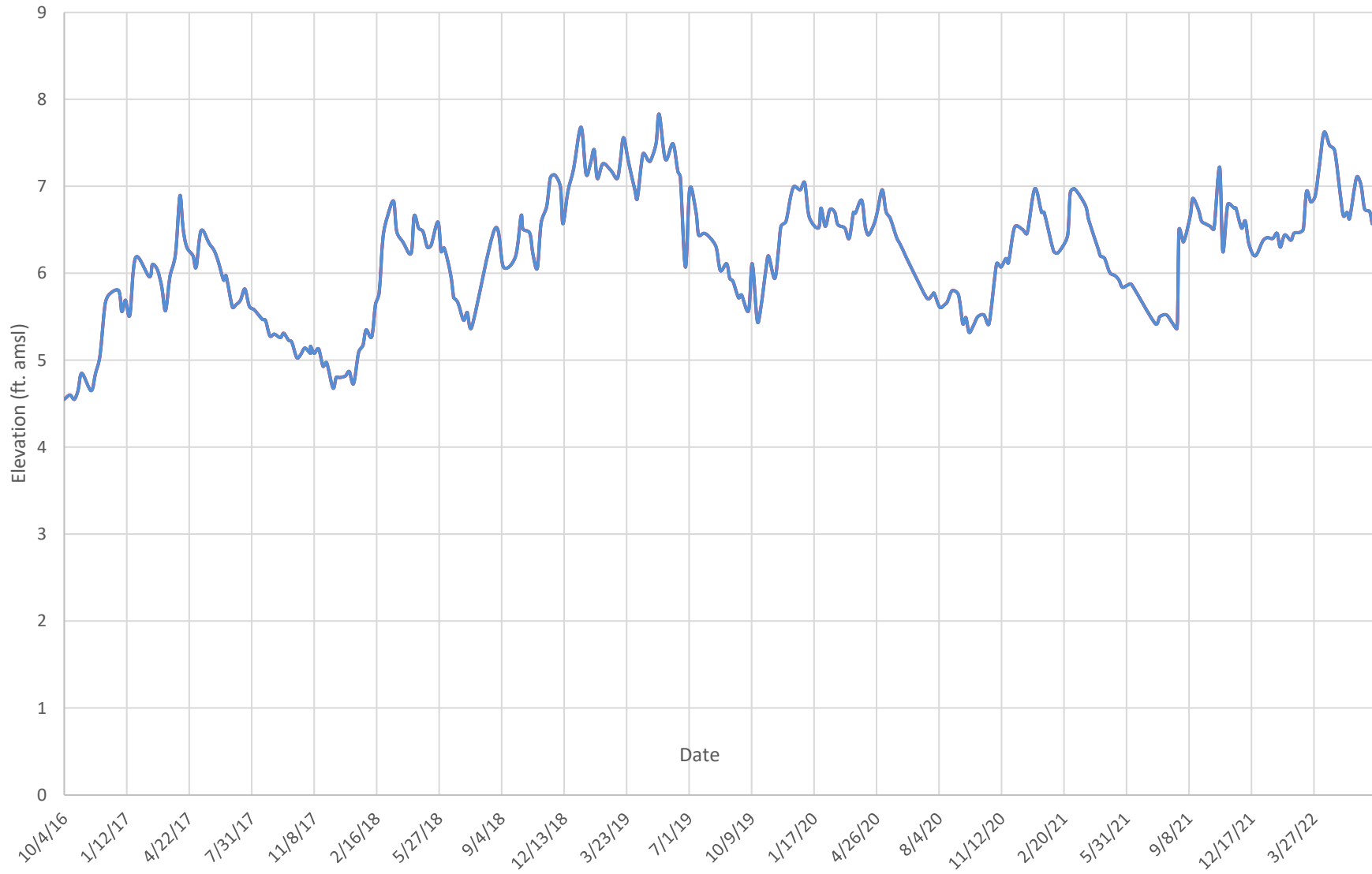
— Groundwater Elevation — Free Product Elevation

OUII-D Hydrograph



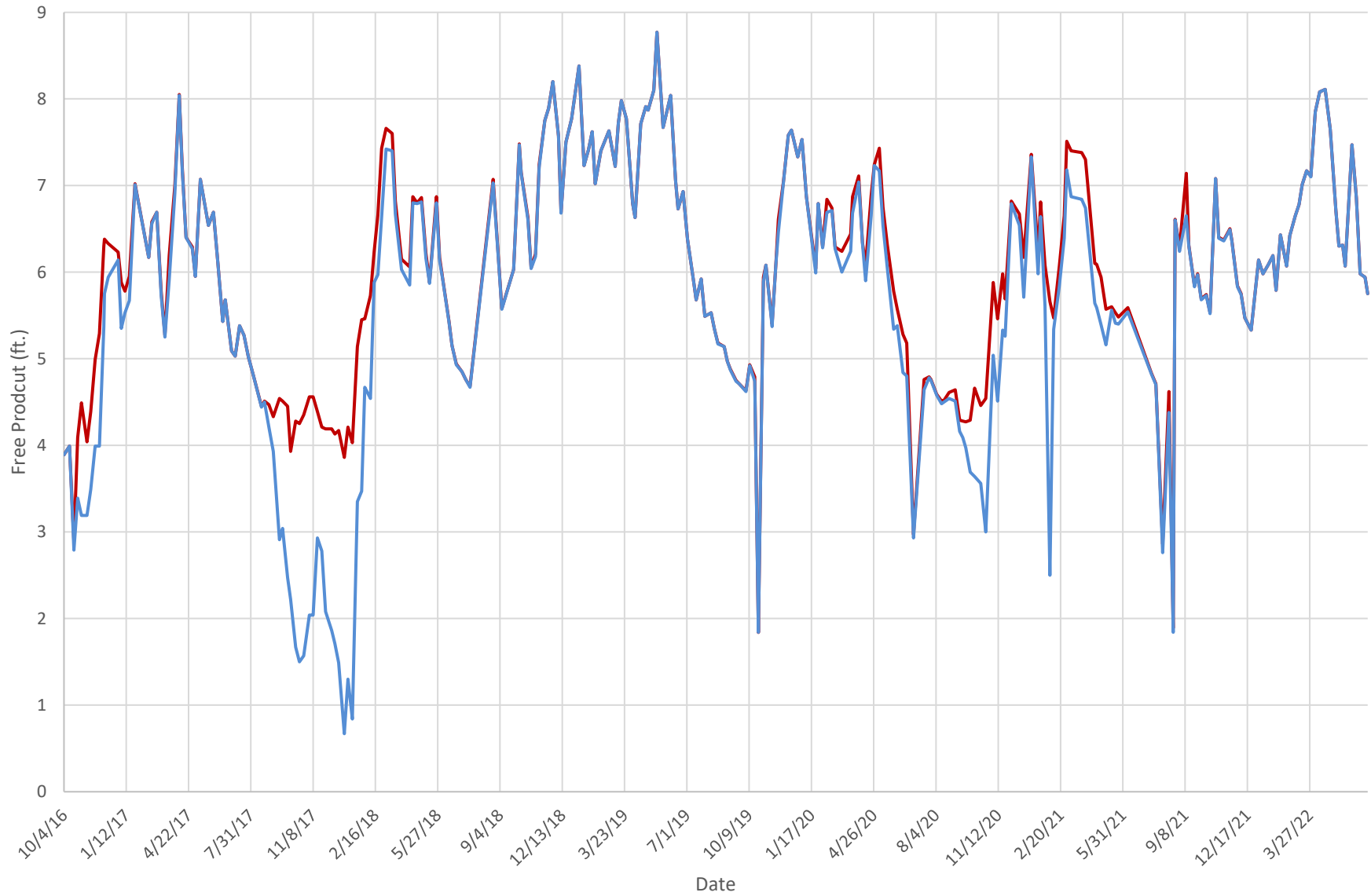
— Groundwater Elevation — Free Product Elevation

OUII-E Hydrograph



Free Product Elevation Groundwater Elevation

OUII-F Hydrograph



— Free Product Elevation — Groundwater Elevation