

**SITE MANAGEMENT PLAN STATUS REPORT**  
**REPORT PERIOD: JULY 1, 2021 THROUGH SEPTEMBER 30, 2021**

**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 July 1, 2021 and September 30, 2021 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 conducted 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. Also, during this period groundwater and free product samples were collected from select monitoring wells and submitted to an analytical laboratory for testing.

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 are discussed in this report. [Note: 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 evaluate the extent of free product and develop options to limit off-site free product migration. As of the date of this report, a response has not been received from the NYSDEC regarding the methods outlined in the Corrective Measures Work Plan.]

***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 on August 3, 2021 and August 4, 2021 is included as Figure 1. As shown on Figure 1, groundwater flow at the Site is generally in the direction of OU-I and to the northwest, except in the area of NAPL Area L3 where the flow is to the northeast. There are apparent localized sinks and mounds in other areas, which appear attributable to pumping associated with the Spill Buster™ systems installed in wells FA4-8 and RW-1 and potentially due to other factors such as the possible plugging of the well screens (e. g., FA4-11, FA4-17, FA4-15, FA4-13, and OUII-F). Note: Cleaning/redevelopment and assessment of wells that appear to be plugged is tentatively scheduled to be completed during the upcoming reporting period and the results of this work will be presented in a subsequent SMP Status Report.

***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 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, and 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. The reason for the increase in free product removal 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 June 30, 2021) 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 July 1, 2021 and September 30, 2021) and the preceding report period (i.e., between January 1, 2021 and June 30, 2021) is included as Figure 2.

The free product removed was placed in 55-gallon drums, which are stored in a waste accumulation area. Prior to removal of the drums from the waste accumulation area and disposal of the drums, samples are collected from full 55-gallon drums and submitted to an analytical laboratory for testing of PCBs. During the current period, samples were not collected from full 55-gallon drums.

During the current report period four full drums, which were sampled during a previous report period, were removed from the Site for off-site disposal on August 9, 2021. A signed copy of this manifest is included in Attachment C.

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:** Between August 24, 2021 and August 26, 2021, groundwater samples were collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11, and DAY-1 as part of the long-term monitoring plan identified in the SMP, and a subsequent request of the NYSDEC to test for emerging contaminants in the groundwater samples collected from select wells. Also, in response to comments in the 2021 letter received from the NYSDEC, groundwater samples were collected from monitoring wells FA4-9, VE4-7, and VE4-9 and off-site

monitoring wells OUII-C and OUII-E. The groundwater samples were submitted to Chemtech Laboratories (Chemtech) for testing of the following parameters:

- Volatile Organic Compounds (VOCs)
- Semi-Volatile Organic Compounds (SVOCs)
- Polychlorinated Biphenyls (PCBs)
- Metals
- 1,4-Dioxane (monitoring wells VE1-4, VE2-1, and VE4-11)

Groundwater samples collected from monitoring wells VE1-4, VE2-1, and VE4-11 were subcontracted by Chemtech to Eurofins Lancaster Laboratories Env., LLC (Eurofins) for testing of the following parameters:

- Per- & Polyfluorinated Alkyl Substances (PFAS)

Free product/groundwater samples were also collected from three off-site monitoring wells (i.e., OUII-B, OUII-D, and OUII-F) and three on-site monitoring wells (i.e., FA4-16, FA4-11, and PGW-2). These samples were submitted under chain-of-custody control to Chemtech for testing of PCBs via USEPA method 8082A.

Test results for the groundwater and free product samples collected in August 2021 as well as those collected between March 2012 (i.e., the initial quarter completed under the SMP) and September 2019 per the requirements of the long-term monitoring plan, are presented on Table 3 through Table 6. The groundwater test results for volatile organic compounds are presented in Table 3, semi-volatile organic compounds in Table 4, polychlorinated biphenyls in Table 5, and metals in Table 6. The applicable groundwater standards or guidance values as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004 (TOGS 1.1.1) are also included on Table 3 through Table 6. The test results are discussed below.

- As shown on Table 3, VOCs were not detected in the groundwater samples collected in August 2021 from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 4-11, OUII-C, and OUII-E. The samples collected from monitoring wells VE 3-1, DAY-1, VE 4-7, VE 4-9, and FA 4-9 in August 2021 contained detectable concentrations of one or more VOC (e.g., 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, chlorobenzene, ethylbenzene, isopropylbenzene, n-propylbenzene, o-xylene, m,p-xylenes, p-isopropyltoluene, sec-butylbenzene, and toluene). The concentrations of the detected VOCs in the samples collected from monitoring wells VE 3-1, DAY-1, VE4-7, VE 4-9, and FA 4-9 were below the TOGS 1.1.1 groundwater standards or guidance values with the exception of the concentration of 1,3,5- trimethylbenzene in the groundwater sample collected from monitoring well VE 3-1, which slightly exceeded the TOGS 1.1.1 guidance value. The concentrations of VOCs detected in previously sampled wells are consistent with previous sampling events.
- As shown on Table 4, SVOCs were not detected in the groundwater samples collected in August 2021 from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 4-7, VE 4-11, OUII-C, and OUII-E. [Note: the reporting limit for various SVOCs (i.e., benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd) pyrene) exceeded the TOGS 1.1.1 groundwater standard or guidance values.] The samples collected from monitoring wells VE 3-1, DAY-1, VE 4-9, and FA 4-9 in August 2021 contained detectable

concentrations of one or more SVOCs (e.g., 2-methylnaphthalene, acenaphthene, acenaphthylene, fluoranthene, fluorene, phenanthrene, and pyrene). The concentrations of the detected SVOCs in the samples collected from monitoring wells VE 3-1, DAY-1, VE 4-9, and FA 4-9 in August 2021 were below the TOGS 1.1.1 groundwater standards or guidance values. The concentrations of SVOCs detected in previously sampled wells are consistent with previous sampling events.

- As shown on Table 5, PCBs were not detected in the groundwater samples collected from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE4-11, DAY-1, VE4-9, FA4-9, OUII-C, and OUII-E in August 2021. PCBs were detected in the groundwater/free product samples collected from monitoring wells OUII-A, OUII-D, OUII-F, FA4-11, FA 4-16, and PGW-2 at concentrations that exceeded the TOGS 1.1.1 groundwater standard of 0.09 µg/L. The concentrations of PCBs detected ranged from 0.89 µg/L detected in the sample collected from well FA4-11 to a 14.7 µg/L detected in the sample collected from well OUII-A.
- As shown on Table 6, chromium was detected in the groundwater samples collected in August 2021 from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11, OUII-3, VE 4-7, VE 4-9, and FA 4-9. Copper was detected in all the groundwater samples collected in August 2021 (i.e., from monitoring wells VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11, DAY-1, OUII-C, OUII-E, VE 4-7, VE 4-9, and FA 4-9). Arsenic was detected in the groundwater samples collected in August 2021 from monitoring wells VE 3-1, DAY-1, and FA 4-9. Lead was detected in the groundwater samples collected from monitoring wells VE 1-2, VE 1-4, VE 3-1, VE 4-11, DAY-1, and FA 4-9. The concentrations of arsenic, chromium, copper, and lead detected are below the TOGS 1.1.1 groundwater standards or guidance values. The concentrations of arsenic copper, lead, and chromium detected in the sample collected in August 2021 are consistent with previous sampling events.

The test results for the groundwater samples collected for emerging contaminant testing (i.e., PFAS and 1,4-Dioxane) are included in Table 7. The NYSDEC does not currently have groundwater standards or guidance values for PFAS, perfluorooctanoic acid (PFOA) or prefluorooctanesulfonic acid (PFOS); however, the NYSDEC document titled *Guidelines for Sampling and Analysis of PFAS* dated January 2020 states the following:

*“PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt). In addition, further assessment of water may be warranted if either of the following screening levels are met:*

- a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L;*
- or*
- b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L.”*

As shown on Table 7, the samples collected in August 2021 from wells VE 1-4 and VE 2-1 had concentrations of PFOA and PFOS that exceeded 10 nanograms per liter (ng/L) or parts per trillion (ppt). The concentration of PFOA in the sample collected from well VE 2-1, and the concentrations of PFOA and PFOS in the sample collected from well VE 4-11 in August 2021 were below 10 ng/L. No individual PFAS was detected at or above 100 ng/L and the total concentration of PFAS was less

than 500 ng/L in the samples collected in August 2021. [Note: Drinking water wells are not located in proximity to the Site.]

Copies of the analytical laboratory reports submitted by Chemtech and Eurofins are available upon request.

**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. Free product was not detected in wells OUII-C or OUII-E. Table 8 shows the range of static water levels (SWL), 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 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 B. The thickness of free product measured in the off-site wells is also depicted on the hydrographs. As shown on the hydrographs, with the possible exception of well OUII-D where free product levels are relatively consistent, 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 April 19, 2021 by MNR.

During the April 19, 2021 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. [Note: Due to Covid-19 reductions in manpower, the scrap removal was delayed.]

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 April 19, 2021 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 October 1, 2021 and December 31, 2021), 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™ should 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

Note: If 0.2 ft. or more of free product is measured in a well (including off-site wells OU-II-A through OU-II-F) it should be removed using a Spill Buddy™ or a bailer.

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. Specifically, the groundwater elevations in wells FA4-11, FA4-17, FA4-15, FA4-13, and OUII-F are questionable. These wells should be evaluated to assure they are functioning properly, and an updated elevation survey should be completed, if necessary. Wells that are not functioning properly, and that cannot be restored by redevelopment, should be abandoned in accordance with applicable regulations, and replaced, if required.

The next OU-I/OU-II inspection is due on or about October 31, 2021. The next groundwater sampling and testing will be completed on, or about, June 30, 2022. A SMP status report for the work completed during the upcoming period (i.e., October 1, 2021 through December 31, 2021) will be submitted in January 2022 and incorporated into the Periodic Review Report (PRR), which is due on, or before January 31, 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 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, 2019 through January 1, 2022, will be submitted on, or before January 31, 2022. At that time, the SMP will be revised if deemed necessary.

## Tables

Table 1:	Free Product Removal Totals: July 1, 2021 through September 30, 2021
Table 2:	Historic Free Product Removal Totals: December 1, 2012 through June 30, 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: September 2021
Figure 2:	Summary of Free Product Removal for the Report Periods April 1, 2021 – June 30, 2021 and July 1, 2021 – September 30, 2021
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: June 1, 2021 through September 30, 2021
Attachment B:	Off-Site Monitoring Well Hydrographs
Attachment C:	Signed Manifest

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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: July 1, 2021 through September 30, 2021**

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	1.75
<b>Total</b>	<b>1.75</b>

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	NM
AI1-4	0	AI2-3*	47.4	FA4-8*	29
AI1-8	0	VE2-1	0	FA4-9	0
AI1-11	0	<b>Total</b>	<b>47.4</b>	FA4-10	NM
AI1-12	0			FA4-11	0
AI1-15	0			FA4-12	1.25
AI1-16	0			FA4-13	0
AI1-17	0			FA4-14	6.01
SP-North	0			FA4-15	4.82
VE1-1	1.88			FA4-16	2.88
VE1-2	0			FA4-17	2.1
VE1-3	0			FA4-18	2.25
VE1-4	0			FA4-19	NM
WB-9	0			FA4-20	0
<b>Total</b>	<b>1.88</b>			FA4-21	0
				FA4-23	0
				PGW-2	0
				RW-1*	17.6
				VE4-1	0
				VE4-5	2.88
				VE4-6	0
				VE4-7	0
				VE4-8	0
				VE4-9	0
				VE4-10	0
				VE4-11	0
				VE4-12	0
				VE4-13	0
				<b>Total</b>	<b>68.82</b>

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 - June 30, 2021

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	152.85
<b>Total</b>	<b>182.345</b>

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	871.23	FA4-8	510.46
AI1-8	0.06	VE2-1	0	FA4-9	3.48
AI1-11	0.122	<b>Total</b>	<b>872.86</b>	FA4-10	0.13
AI1-12	0.18			FA4-11	143.52
AI1-15	0.38			FA4-12	9.67
AI1-16	0			FA4-13	101.8
AI1-17	9.14			FA4-14	252.17
VE1-1	14.86			FA4-15	66.14
VE1-2	0.01			FA4-16	64.43
VE1-3	0.1			FA4-17	66.45
VE1-4	0			FA4-18	106.25
<b>Total</b>	<b>24.852</b>			FA4-19	0
				FA4-20	0
				FA4-21	0.54
				FA4-23	1.17
				PGW-2	22.58
				RW-1*	1585.4
				VE4-1	0
				VE4-5	204.43
				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
				<b>Total</b>	<b>3159.22</b>



**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 <sup>(1)</sup>	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 <sup>(1)</sup>	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	<b>ND [2.20]</b>	<b>ND [2.20]</b>	<b>ND [2.20]</b>	<b>ND [2.20]</b>	<b>ND [2.20]</b>
Benzo(a)pyrene	ND	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]	ND [2.00]
Benzo(b)fluoranthene	0.002	<b>ND [2.00]</b>	<b>ND [2.00]</b>	<b>ND [2.00]</b>	<b>ND [2.00]</b>	<b>ND [2.00]</b>
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	<b>ND [2.00]</b>	<b>ND [2.00]</b>	<b>ND [2.00]</b>	<b>ND [2.00]</b>	<b>ND [2.00]</b>
Chrysene	0.002	<b>ND [2.30]</b>	<b>ND [2.30]</b>	<b>ND [2.30]</b>	<b>ND [2.30]</b>	<b>ND [2.30]</b>
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	<b>ND [2.60]</b>	<b>ND [2.60]</b>	<b>ND [2.60]</b>	<b>ND [2.60]</b>	<b>ND [2.60]</b>
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 <sup>(1)</sup>	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 [0.096]	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 <sup>(1)</sup>	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]	<b>0.0928</b>	ND [0.0588]	ND [0.103]	<b>0.914</b>	<b>0.711</b>	0.0747	<b>0.291</b>	ND	ND

Compound	Groundwater Standard or Guidance Value <sup>(1)</sup>	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 <sup>(1)</sup>	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]
<b>Total PCBs</b>	<b>0.09</b>	<b>14.7</b>	<b>ND</b>	<b>8.3</b>	<b>ND</b>	<b>2</b>	<b>ND</b>	<b>0.89</b>	<b>10</b>	<b>2.1</b>	<b>ND</b>	<b>ND</b>	

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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>1</sup>	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 (PF OA)	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 <sup>1</sup>	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 (PF OA)	10	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7]	1.4 J	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

1 = 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 LCSD 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

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 (5.83 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 August 2021
- Off-site monitoring well installed September 2016
- Existing monitoring well 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	10-2021
DRAWN BY	CPS	DATE DRAWN	10-2021
SCALE	As Noted	DATE ISSUED	10-27-2021

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

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

Drawing Title  
**SITE MANAGEMENT PLAN**

Project No.  
**21-3670M**

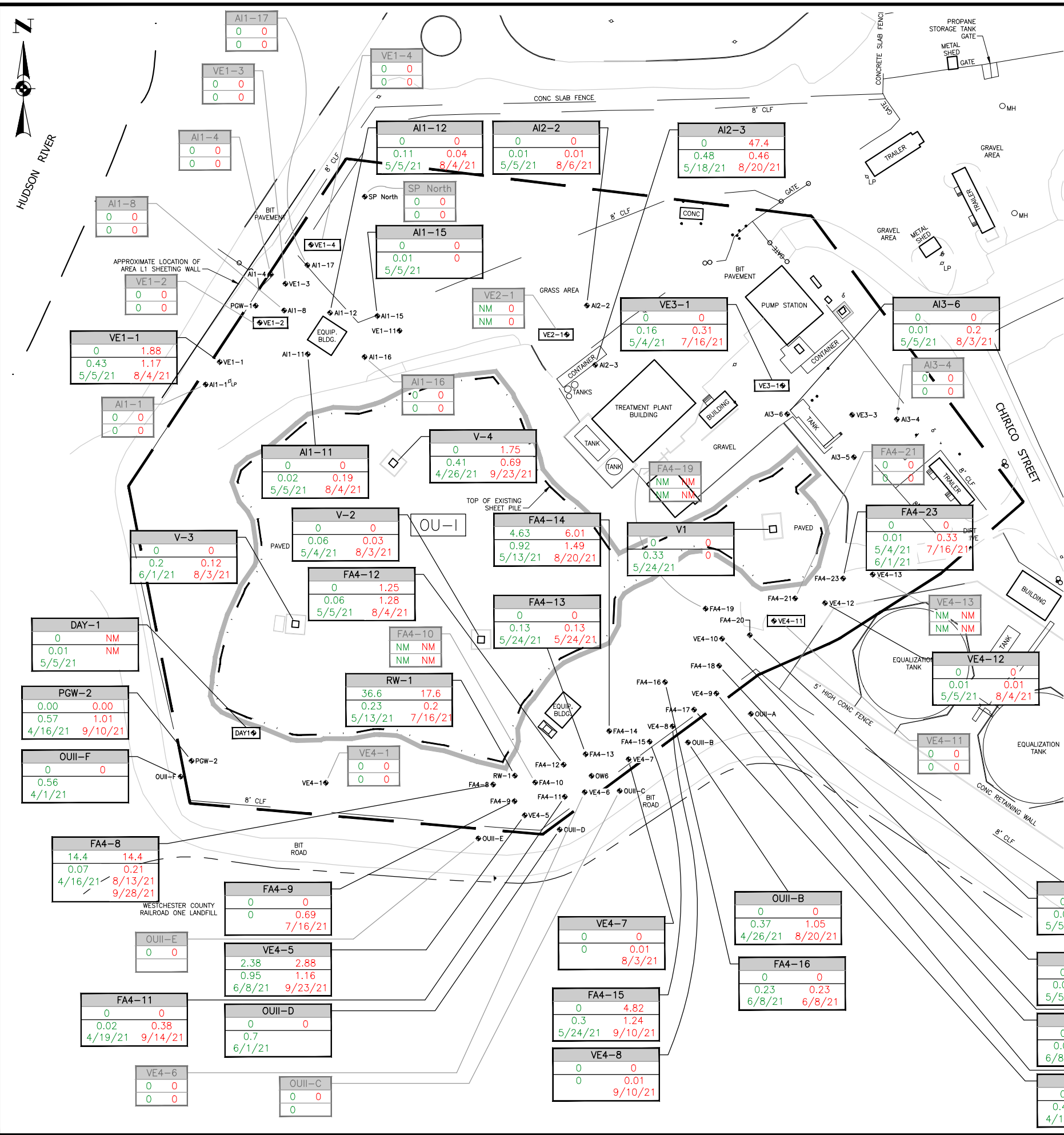
**Groundwater Contour Map: August 2021**

**FIGURE 1**

Last Date Saved: 28 Oct 2021 Document Path: \\mnr\gis\1\mnr\mnr\_Data\mnr\Harmon\_Yard\OU1\_OU2\Remediation\_OU\_L\_OU1\_20210803.mxd

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

Time Plotted: Wednesday, November 03, 2021 8:27:22 AM  
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\WAPL Wells Period July-Sept. 2021.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
- - - - - Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU-I)
- ▬ Extent Of OU-I Final Cover System
- ▬ OU-II Boundary
- V-1 OU-I Contingency Vapor Extraction System Wells
- FA4-14 Long-Term Monitoring Well Identification
- Free Product Removed (Gallons) During Report Period
- Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement
- Measurements Made During The Report Period April 1, 2021 Through June 30, 2021 Shown In Green (Left)
- Measurements Made During The Report Period July 1, 2021 Through September 30, 2021 Shown In Red (Right)
- NM Well Not Measured

**SITE PLAN**

1" = 80'



DATE	11/2021
PROJECT MANAGER	HMM
DATE DRAWN	11/3/2021
DRAWN BY	RJM/CPS/TW
DATE ISSUED	11/3/2021
SCALE	As Noted

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

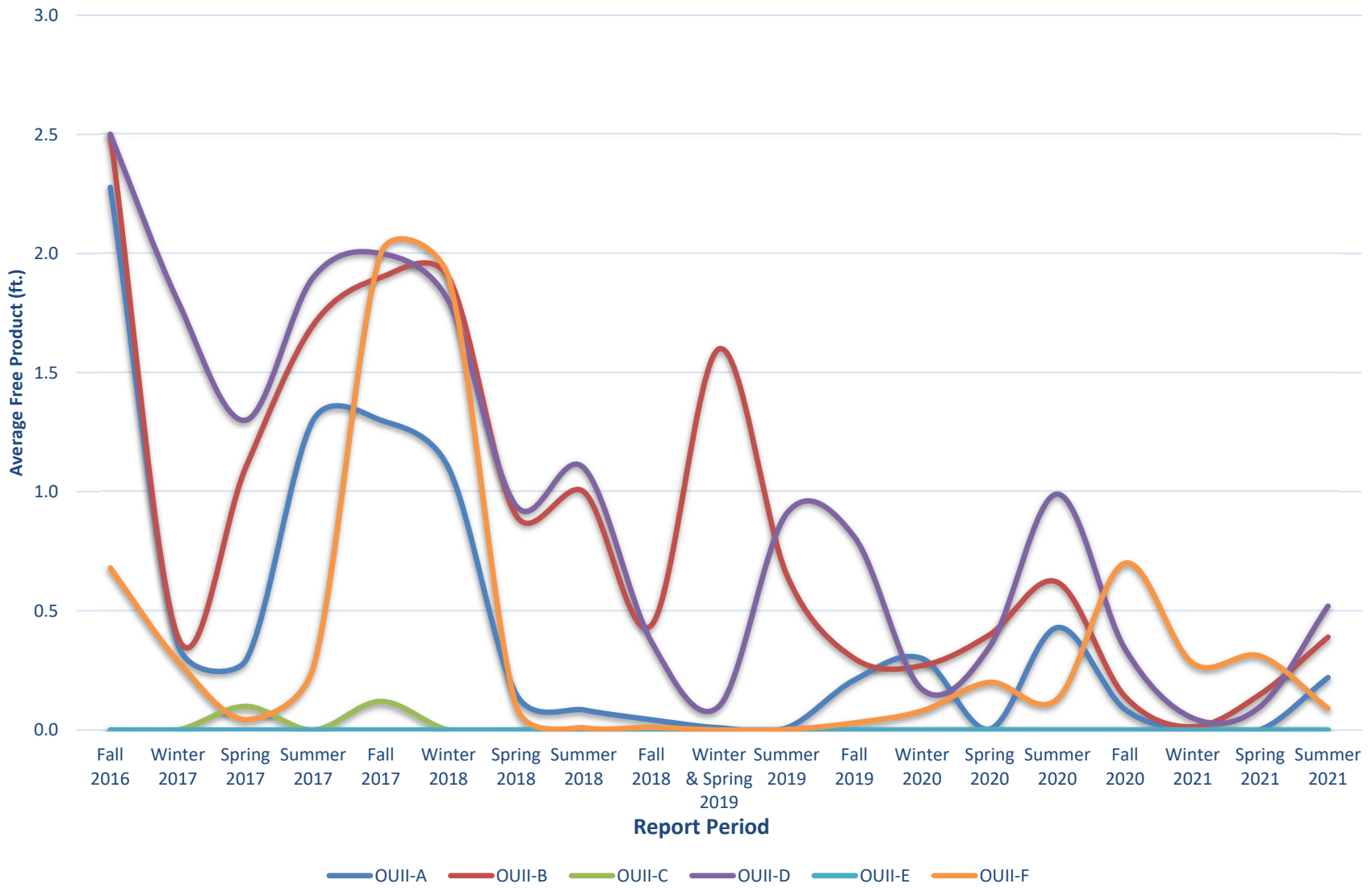
PROJECT TITLE  
**METRO-NORTH RAILROAD  
 HARMON YARD OPERABLE UNITS OU-I AND OU-II  
 CROTON-ON-HUDSON, NEW YORK**  
 NYSDEC SITE #360010  
 DRAWING TITLE  
**Summary Of Free Product Removal For The Report Periods  
 April - June 2021 and July - September 2021**

PROJECT NO.  
 21-3670M

**FIGURE 2**



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



**ATTACHMENT A**

**Well Monitoring Logs and Free Product Removal Records  
July 1, 2021 through September 30, 2021**

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
8/4/2021	-	14.20	0.00	0.00	

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
8/4/2021	-	14.05	0.00	0.00	

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
8/4/2021	-	14.48	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
8/4/2021	-	14.00	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
8/4/2021	-	2.38	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
8/4/2021	-	14.04	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
8/4/2021	-	13.71	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
8/4/2021	-	13.78	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
8/4/2021	-	13.67	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
7/16/2021	-	16.51	0	0	
8/3/2021	-	16.62	0	0	
9/10/2021	-	12.55	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
7/16/2021	17.56	17.57	0.01	0	
8/3/2021	17.42	17.45	0.03	0	
9/10/2021	12.09	12.1	0.01	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
7/16/2021	17.18	17.22	0.04	0	
8/3/2021	17.09	17.21	0.12	0	
9/10/2021	11.65	11.69	0.04	0	

**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	16.25	16.81	0.56	0.75	
7/23/2021	16.25	16.61	0.36	0	
8/3/2021	16.28	16.55	0.27	0	
8/13/2021	16.35	16.75	0.4	0	
8/20/2021	16.45	16.78	0.33	0	
8/23/2021	11.8	12.23	0.43	0	
8/30/2021	11.7	12.05	0.35	0	
9/10/2021	10.9	11.35	0.45	0	
9/14/2021	11.11	11.49	0.38	0	
9/23/2021	11.32	12.01	0.69	1	
9/28/2021	11.33	11.63	0.3	0	



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
8/4/2021	-	11.47	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
8/4/2021	-	10.58	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
8/4/2021	-	13.72	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
8/4/2021	14.01	14.20	0.19	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
8/4/2021	17.24	17.28	0.04	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: A11-15 Diameter: 2 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
8/4/2021	-	18.81	0	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
8/4/2021	-	14.12	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
8/4/2021	-	12.32	0	0	



**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	-	9.71	0		
7/23/2021	-	9.78	0		
8/3/2021	-	9.73	0		
8/13/2021	-	9.85	0		
8/20/2021	-	9.82	0		
8/23/2021	-	8.77	0		
8/30/2021	-	8.82	0		
9/10/2021	-	8.13	0		
9/14/2021	-	8.38	0		
9/23/2021	-	8.56	0		
9/28/2021	-	-	-		Dry, blocked at 6.77 ft

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
8/4/2021	8.83	10	1.17	1.88	

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
8/4/2021	-	9.80	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
8/4/2021	-	8.83	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
8/4/2021	-	10.38	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
8/4/2021	-	9.13	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
8/6/2021	15.44	15.45	0.01	0	

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
8/3/2021	-	11.71	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
8/3/2021	-	14.34	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*
7/16/2021	15.69	15.89	0.2	0	Drum- 1.47
7/23/2021	15.68	15.88	0.2	0	Drum- 1.95
8/3/2021	15.61	15.73	0.12	0	
8/13/2021	15.82	15.91	0.09	0	Drum- 2.4
8/20/2021	15.89	16.35	0.46	0	Drum- 0.62
8/23/2021	15.22	15.4	0.18	0	0.88 DRum
8/25/2021	15.22	15.4	0.18	0	Drum-0.88
8/30/2021	15.09	15.11	0.02	0	Drum- 1.05
9/10/2021	14.82	14.83	0.01	0	Drum-1.10
9/14/2021	14.85	15	0.15	0	
9/23/2021	15.05	15.12	0.07	0	Drum- 1.12
9/28/2021	15.05	15.18	0.13	0	Drum-1.19

\*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 6/8/2021 stated '1.32 ft'. Approximately 47.4 gallons of free product recovered during report period.

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
8/3/2021	17.18	17.38	0.20	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
7/16/2021	14.49	14.8	0.31	0	
8/3/2021	14.43	14.61	0.18	0	
9/10/2021	13.5	13.71	0.21	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
Not measured					

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*
7/16/2021	18.05	18.15	0.1	0	Drum-0.69
7/23/2021	17.95	17.96	0.01	0	Drum-0.78
8/3/2021	18.08	18.09	0.01	0	Drum-0.84
8/13/2021	18.08	18.29	0.21	0	Drum-0.95
8/20/2021	18.1	18.16	0.06	0	Drum-1.02
8/23/2021	16.45	16.55	0.1	0	Drum-1.02
8/30/2021	16.61	16.62	0.01	0	Drum-1.14
9/10/2021	16.14	16.29	0.15	0	Drum-1.27
9/14/2021	16.2	16.23	0.03	0	Drum-1.39
9/23/2021	16.38	16.4	0.02	0	Drum-1.56
9/28/2021	16.23	16.44	0.21	0	Drum-1.72

\*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 6/15/2021 stated 'drum 0.27 ft'. Total amount of Free Product Recovered = 29 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
7/16/2021	8.28	8.97	0.69	0	
8/3/2021	8.45	8.95	0.5	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.

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	11.75	11.81	0.06	0	
7/23/2021	11.8	11.85	0.05	0	
8/3/2021	11.85	11.95	0.1	0	
8/13/2021	11.92	12.04	0.12	0	
8/20/2021	12.05	12.12	0.07	0	
8/23/2021	11.05	11.36	0.31	0	
8/30/2021	11.18	11.51	0.33	0	
9/10/2021	10.65	10.99	0.34	0	
9/14/2021	10.74	11.12	0.38	0	
9/23/2021	10.91	11.23	0.32	0	
9/28/2021	10.9	11.25	0.35	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
8/4/2021	14.75	16.03	1.28	1.25	

**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	11.29	11.3	0.01	0	
7/23/2021	11.28	11.29	0.01	0	
8/3/2021	11.18	11.19	0.01	0	
8/13/2021	11.39	11.4	0.01	0	
8/20/2021	11.49	11.51	0.02	0	
8/23/2021	11.05	11.36	0.31	0	
8/30/2021	10.32	10.33	0.01	0	
9/10/2021	9.82	9.83	0.01	0	
9/14/2021	9.91	9.92	0.01	0	
9/23/2021	10.15	10.16	0.01	0	
9/28/2021	10.11	10.12	0.01	0	

**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	13.62	14.78	1.16	1.88	
7/23/2021	14.38	14.59	0.21	0	
8/3/2021	13.7	14.75	1.05	1.75	
8/13/2021	13.75	14.15	0.4	0	
8/20/2021	13.74	15.23	1.49	1.38	
8/23/2021	13.04	14.36	1.32	0	
8/30/2021	13.06	13.49	0.43	0	
9/10/2021	12.58	13.01	0.43	0	
9/14/2021	12.61	13.08	0.47	0	
9/23/2021	12.82	13.82	1	1	
9/28/2021	12.82	13.75	0.93	0	

**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	10.65	11.4	0.75	0.88	
7/23/2021	10.68	10.69	0.01	0	
8/3/2021	10.74	11.01	0.27	0	
8/13/2021	10.85	11.25	0.4	0	
8/20/2021	10.96	11.52	0.56	1.13	
8/23/2021	10.26	10.27	0.01	0	
8/30/2021	9.82	9.83	0.01	0	
9/10/2021	9.2	10.44	1.24	1.06	
9/14/2021	10.41	10.85	0.44	0	
9/23/2021	9.48	10.71	1.23	1.75	
9/28/2021	9.61	9.91	0.3	0	

**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	14.68	15.55	0.87	1	
7/23/2021	14.76	15.19	0.43	0	
8/3/2021	14.76	15.68	0.92	0.75	
8/13/2021	14.92	15.38	0.46	0	
8/20/2021	14.76	15.58	0.82	1.13	
8/23/2021	14.48	14.50	0.02	0	
8/30/2021	14.21	14.23	0.02	0	
9/10/2021	13.71	13.72	0.01	0	
9/14/2021	13.8	13.81	0.01	0	
9/23/2021	13.95	13.96	0.01	0	
9/28/2021	13.98	13.99	0.01	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
7/16/2021	11.95	12.15	0.2	0	
7/23/2021	11.9	12.35	0.45	0	
8/3/2021	11.98	12.25	0.27	0	
8/13/2021	12.00	12.45	0.45	0	
8/20/2021	12.05	12.89	0.84	1.13	
8/23/2021	10.48	10.49	0.01	0	
8/30/2021	9.98	10.05	0.07	0	
9/10/2021	10.87	10.89	0.02	0	
9/14/2021	9.82	10.3	0.48	0	
9/23/2021	10.18	11.05	0.87	1	
9/28/2021	10.21	10.82	0.61	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.

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	13.22	13.72	0.5	0.75	
7/23/2021	13.26	13.65	0.39	0	
8/3/2021	13.32	13.88	0.56	0.75	
8/13/2021	13.36	13.82	0.46	0	
8/20/2021	13.42	13.68	0.26	0	
8/23/2021	12.88	13.33	0.45	0	
8/30/2021	12.61	12.98	0.37	0	
9/10/2021	12.12	12.45	0.33	0	
9/14/2021	12.05	12.49	0.44	0	
9/23/2021	12.31	13.12	0.81	0.75	
9/28/2021	12.42	12.43	0.01	0	

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
8/4/2021	13.51	13.52	0.01	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
7/16/2021	-	14.14	0	0	
8/3/2021	-	14.18	0	0	
9/10/2021	-	12.85	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
7/16/2021	13.45	13.78	0.33	0	
8/3/2021	13.48	13.49	0.01	0	
9/10/2021	12.48	12.64	0.16	0	

**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	7.58	7.78	0.2	0	
7/23/2021	7.31	7.71	0.4	0	
8/3/2021	7.25	7.52	0.27	0	
8/13/2021	7.55	7.95	0.4	0	
8/20/2021	7.55	8.05	0.5	0	
8/23/2021	5.66	6.66	1	0	
8/30/2021	5.49	6.41	0.92	0	
9/10/2021	5.64	6.65	1.01	0	
9/14/2021	6.05	6.95	0.9	0	
9/23/2021	6.52	7.05	0.53	0	
9/28/2021	6.15	6.71	0.56	0	

**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments*</b>
7/16/2021	16.35	16.55	0.2	0	Drum- 1.40
7/23/2021	16.35	16.36	0.01	0	Drum- 1.81
8/3/2021	16.45	16.46	0.01	0	Drum- 2.25
8/13/2021	16.45	16.55	0.1	0	Drum-2.31
8/20/2021	17.02	17.14	0.12	0	Drum-2.33
8/23/2021	14.75	14.76	0.01	0	Drum-0.45
8/30/2021	14.71	14.72	0.01	0	Drum-0.46
9/10/2021	14.3	14.31	0.01	0	Drum-0.46
9/14/2021	14.35	14.36	0.01	0	Drum-0.46
9/23/2021	14.55	14.56	0.01	0	Drum-0.45
9/28/2021	14.55	14.56	0.01	0	Drum-0.48

\*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 6/15/2021 stated 'drum 2.10 ft'. Total amount of Free Product Recovered = 17.6 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
8/4/2021	-	9.35	0	0	



**Metro-North Railroad Free Product Recovery Report**

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

<b>Date</b>	<b>Depth to Free Product (ft)</b>	<b>Depth to Water (ft)</b>	<b>Free Product Thickness (ft)</b>	<b>Free Product Recovered (gal)</b>	<b>Comments</b>
7/16/2021	10.02	10.85	0.83	0.75	
7/23/2021	9.99	10.16	0.16	0	
8/3/2021	10.05	10.80	0.75	1.13	
8/13/2021	10.18	10.65	0.47	0	
8/20/2021	10.45	10.89	0.44	0	
8/23/2021	9.10	10.05	0.95	0	
8/30/2021	9.35	9.70	0.35	0	
9/10/2021	8.68	9.63	0.95	0	
9/14/2021	9.21	9.60	0.39	0	
9/23/2021	8.89	10.05	1.16	1	
9/28/2021	8.55	9.08	0.53	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
8/3/2021	-	8.59	0	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
7/16/2021	-	8.24	0	0	
8/3/2021	8.28	8.29	0.01	0	
9/10/2021	5.05	5.06	0.01	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
7/16/2021	-	8.55	0	0	
8/3/2021	-	8.6	0	0	
9/10/2021	5.19	5.2	0.01	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
7/16/2021	8.88	8.89	0.01	0	
8/3/2021	8.84	9.01	0.17	0	
9/10/2021	5.89	6	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
8/4/2021	12.9	12.95	0.05	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
8/4/2021	0	13.62	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
8/4/2021	14.2	14.21	0.01	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
7/16/2021	9.1	9.71	0.61	0	
7/23/2021	9.1	9.4	0.3	0	
8/3/2021	9.1	9.45	0.35	0	
8/13/2021	9.18	9.48	0.3	0	
8/20/2021	9.25	9.88	0.63	0	
8/23/2021	8.11	8.21	0.1	0	
8/30/2021	8.2	8.34	0.14	0	
9/10/2021	-	8.09	0	0	
9/14/2021	7.78	7.79	0.01	0	
9/23/2021	7.95	7.96	0.01	0	
9/28/2021	7.97	7.98	0.01	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
7/16/2021	8.91	9.91	1	0	
7/23/2021	8.86	9.62	0.76	0	
8/3/2021	8.99	9.49	0.5	0	
8/13/2021	8.95	9.81	0.86	0	
8/20/2021	9.00	10.05	1.05	0	
8/23/2021	-	8.15	0	0	
8/30/2021	8.26	8.27	0.01	0	
9/10/2021	8.00	8.01	0.01	0	
9/14/2021	-	7.85	0	0	
9/23/2021	8.03	8.04	0.01	0	
9/28/2021	8.02	8.08	0.06	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
7/16/2021	-	9.1	0	0	
7/23/2021	-	9.08	0	0	
8/3/2021	-	9.06	0	0	
8/13/2021	-	9.15	0	0	
8/20/2021	-	9.25	0	0	
8/23/2021	-	7.45	0	0	
8/30/2021	-	7.76	0	0	
9/10/2021	-	7.62	0	0	
9/14/2021	-	7.45	0	0	
9/23/2021	-	7.73	0	0	
9/28/2021	-	7.72	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)	Free Product Recovered (gal)	Comments
7/16/2021	9.19	10.15	0.96	0	
7/23/2021	9.17	10.02	0.85	0	
8/3/2021	9.08	9.84	0.76	0	
8/13/2021	9.18	10.11	0.93	0	
8/20/2021	9.22	10.65	1.43	0	
8/23/2021	7.97	7.98	0.01	0	
8/30/2021	8.38	8.44	0.06	0	
9/10/2021	7.85	7.86	0.01	0	
9/14/2021	-	8.10	0	0	
9/23/2021	8.21	8.88	0.67	0	
9/28/2021	8.15	8.20	0.05	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
7/16/2021	-	9.33	0	0	
7/23/2021	-	9.25	0	0	
8/3/2021	-	9.23	0	0	
8/13/2021	-	9.33	0	0	
8/20/2021	-	9.38	0	0	
8/23/2021	-	8.25	0	0	
8/30/2021	-	8.39	0	0	
9/10/2021	-	8.09	0	0	
9/14/2021	-	7.89	0	0	
9/23/2021	-	8.02	0	0	
9/28/2021	-	8.15	0	0	

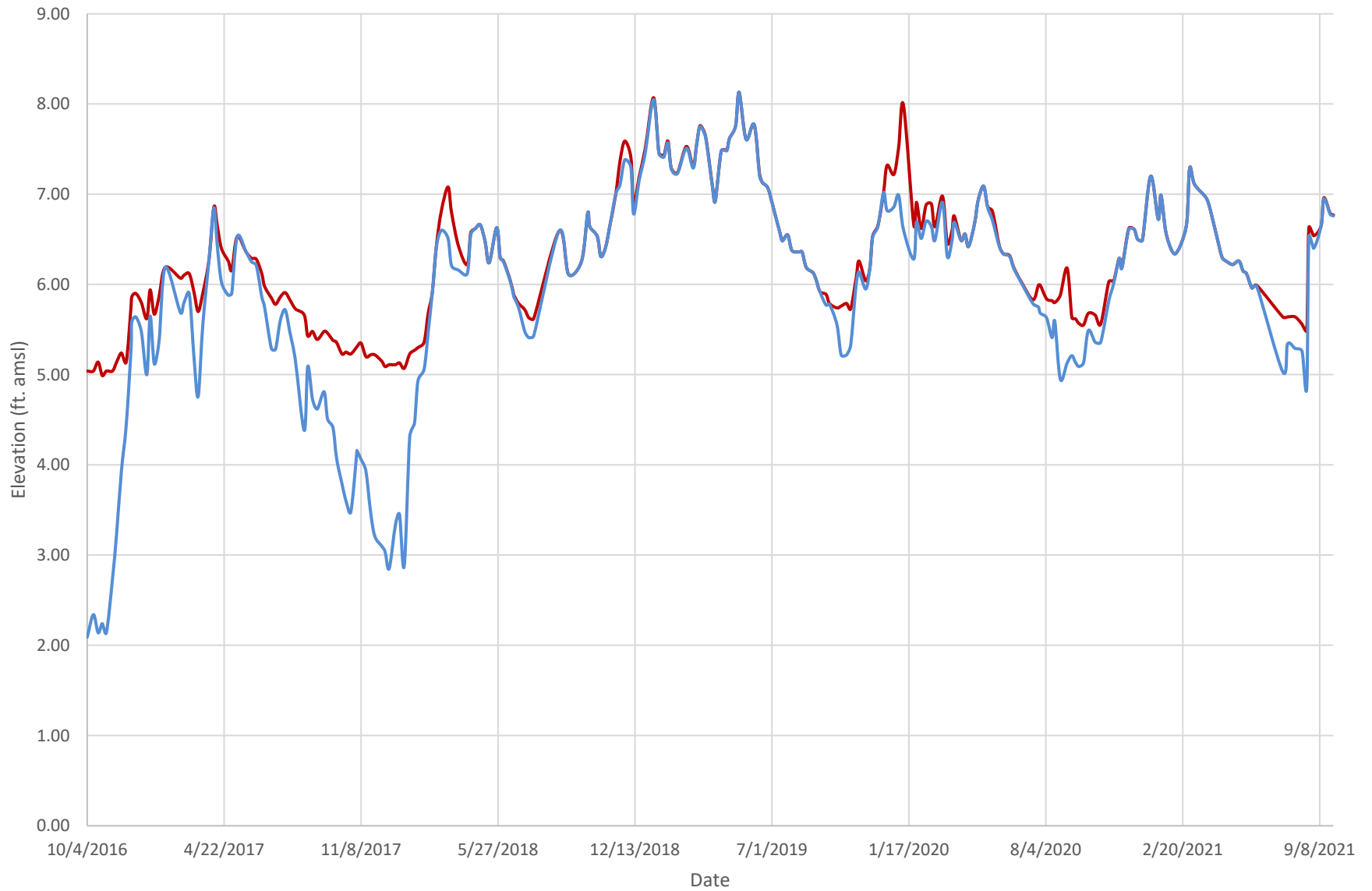
Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
7/16/2021	6.66	6.67	0.01	0	
7/23/2021	6.78	6.79	0.01	0	
8/3/2021	8.63	8.73	0.1	0	
8/13/2021	6.87	7.11	0.24	0	
8/20/2021	9.6	9.65	0.05	0	
8/23/2021	4.88	4.89	0.01	0	
8/30/2021	5.21	5.25	0.04	0	
9/10/2021	4.35	4.84	0.49	0	
9/14/2021	5.18	5.19	0.01	0	
9/23/2021	5.65	5.66	0.01	0	
9/28/2021	5.51	5.52	0.01	0	



**ATTACHMENT B**

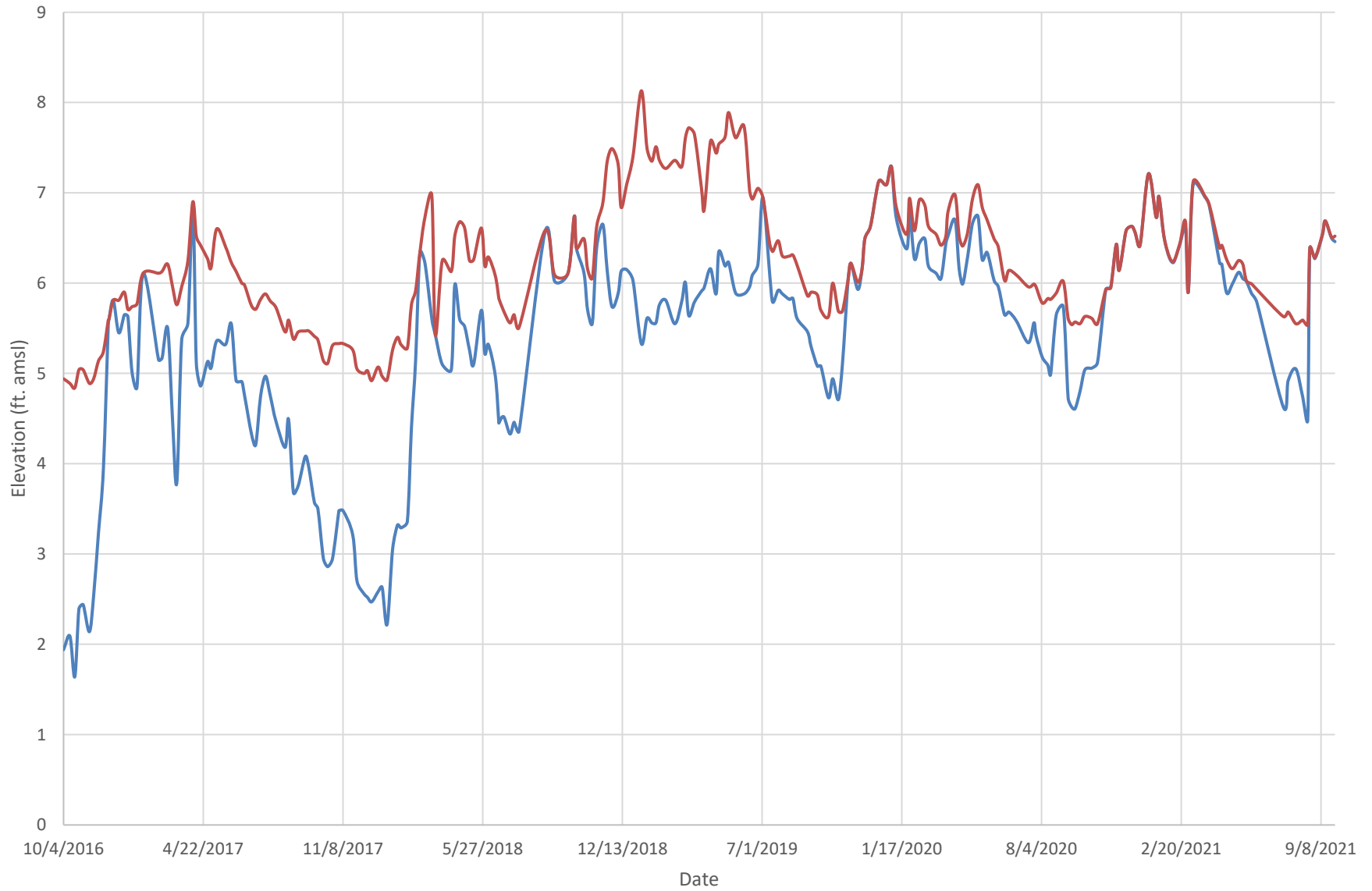
**Off-Site Monitoring Well Hydrographs**

# OUII-A Hydrograph



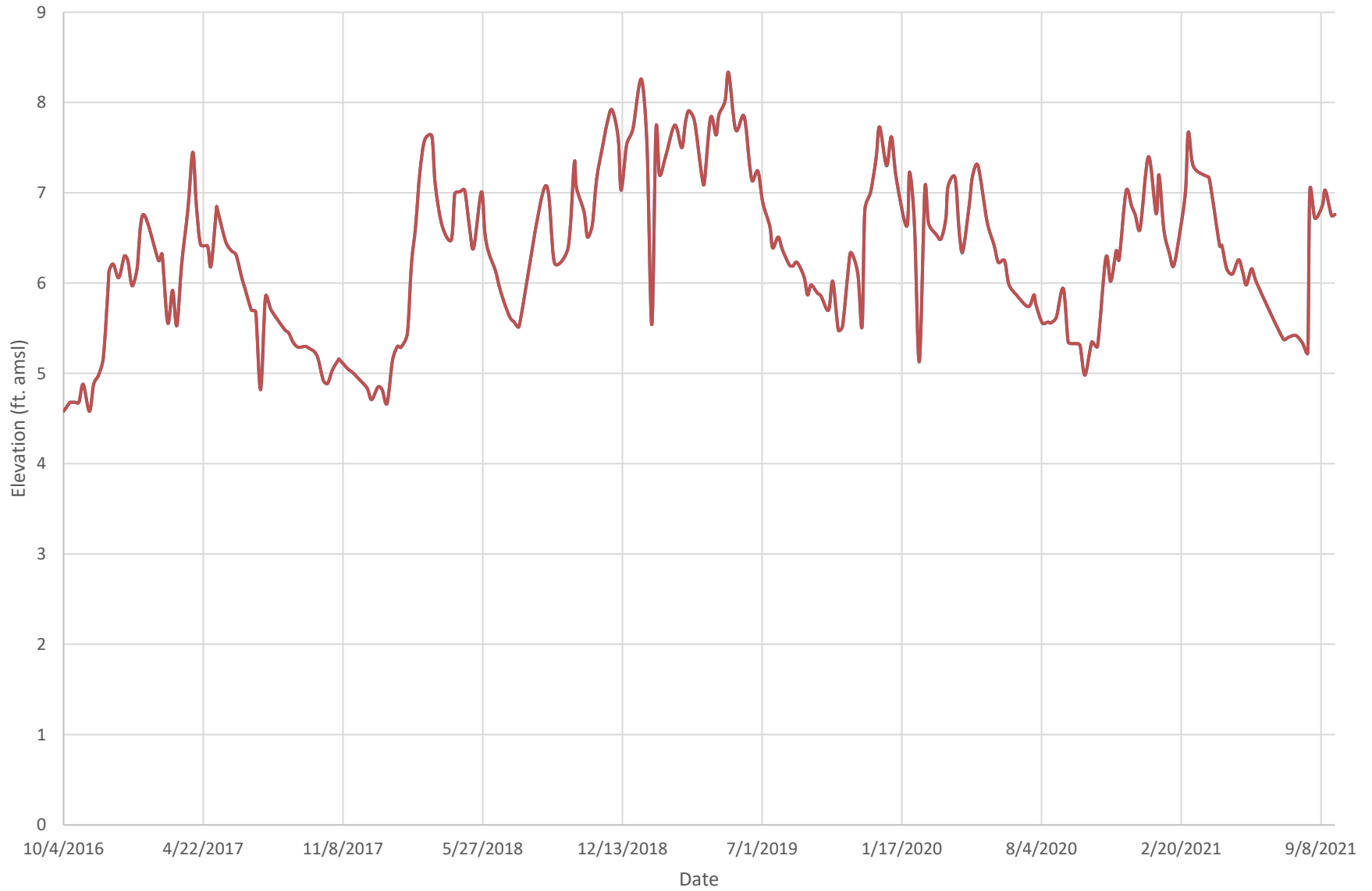
— Free Product Elevation — Groundwater Elevation

# OUII-B Hydrograph



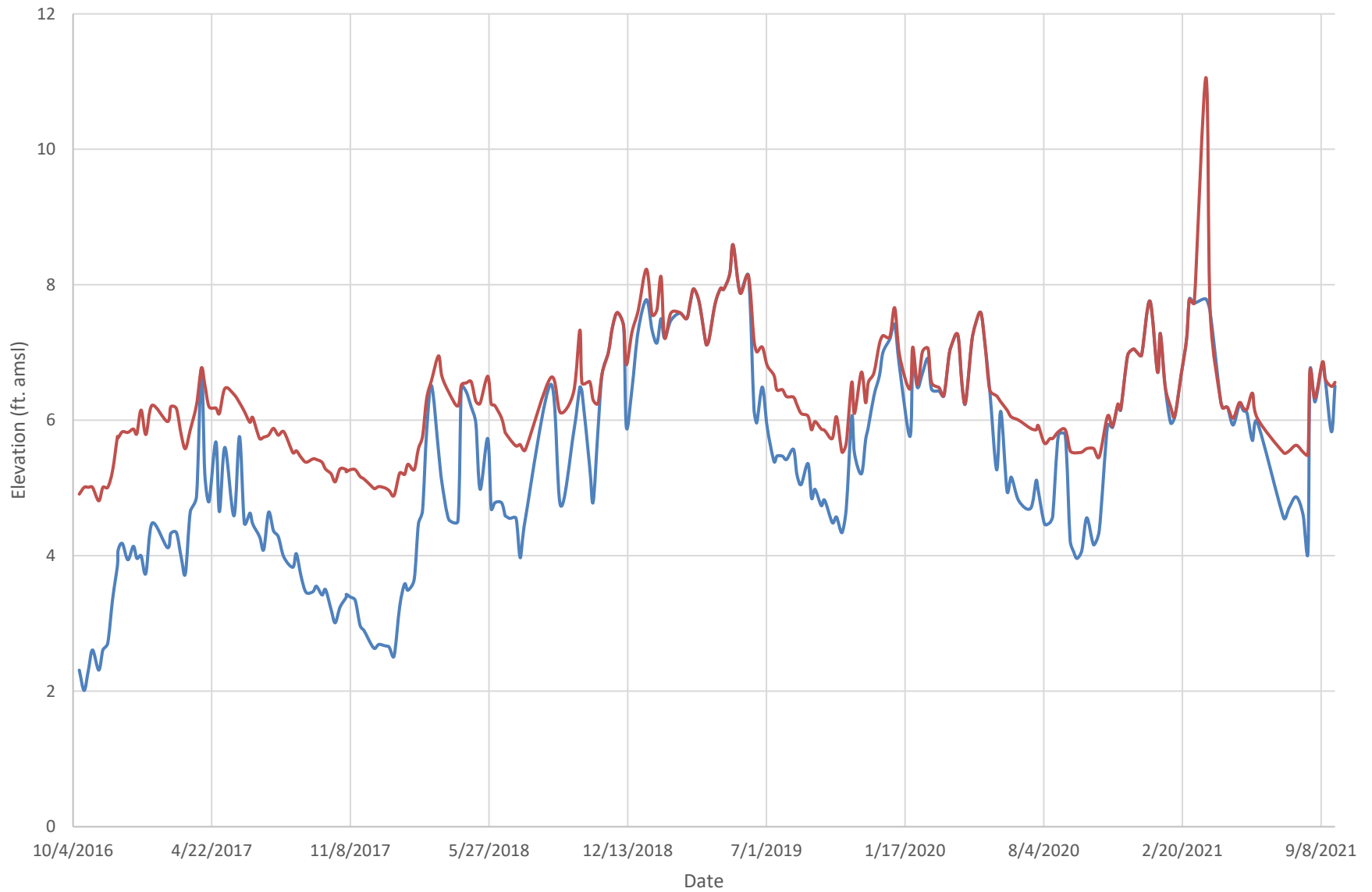
— Groundwater Elevation — Free Product Elevation

# OUII-C Hydrograph



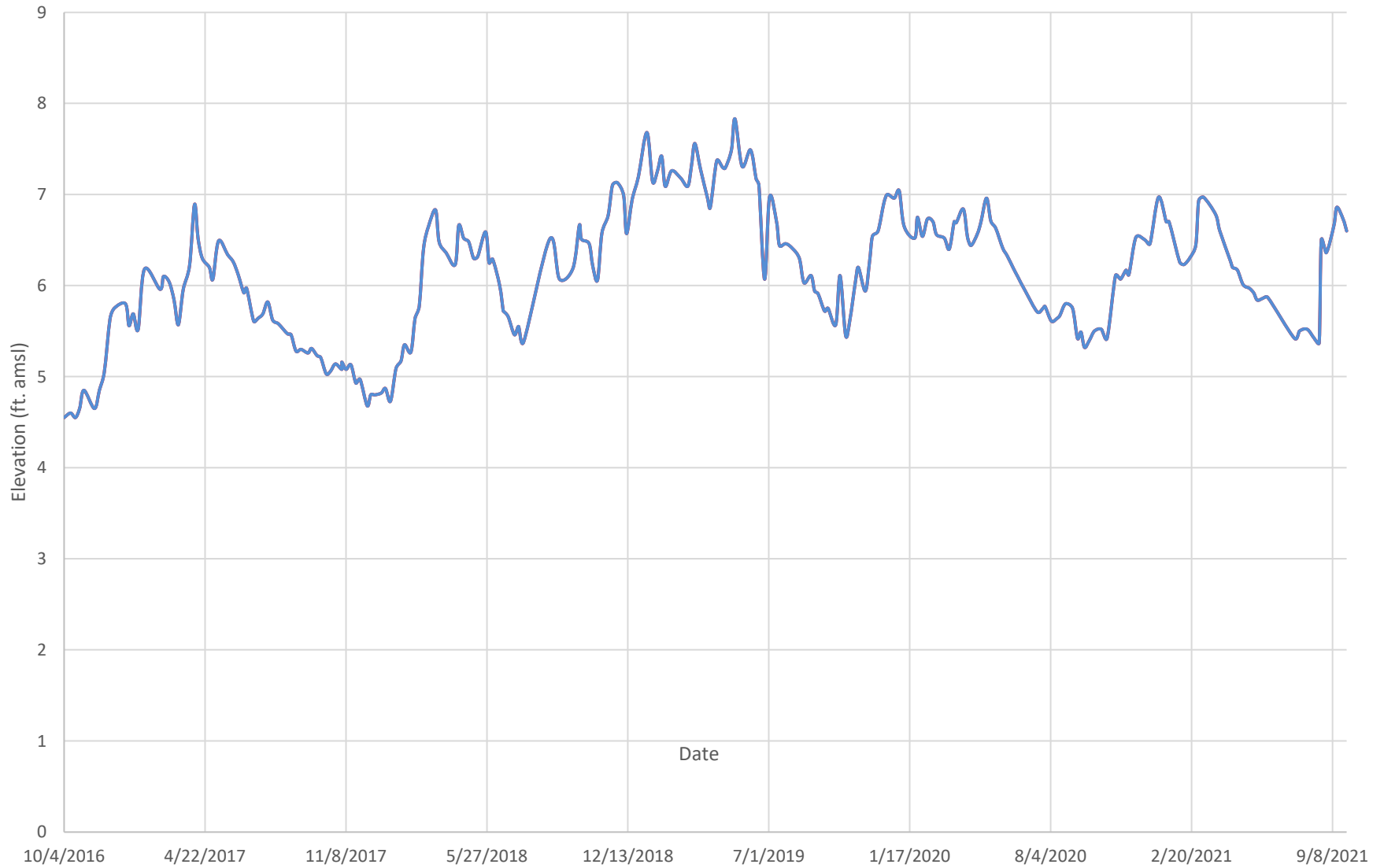
— Groundwater Elevation — Free Product Elevation

# OUII-D Hydrograph



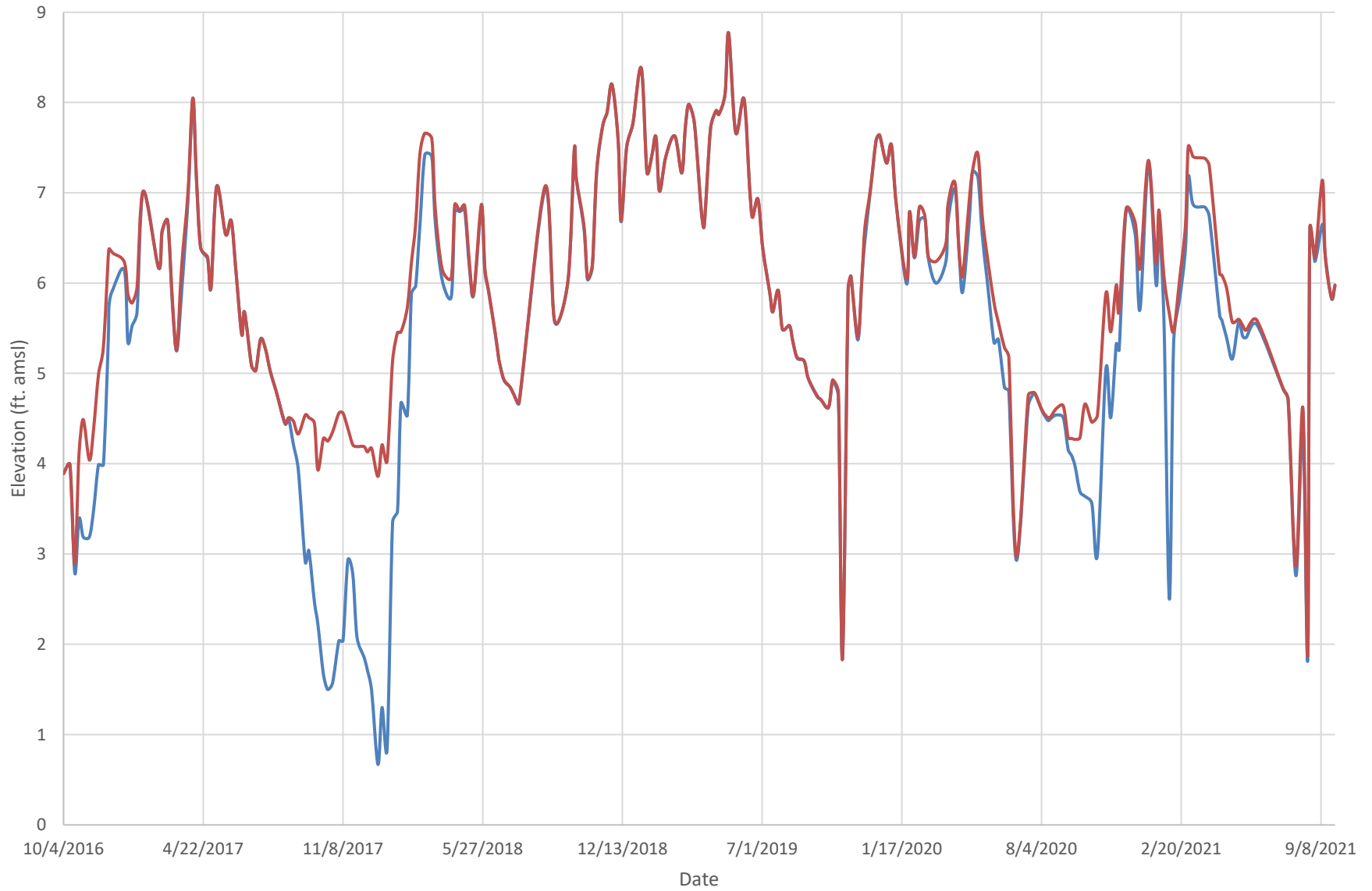
— Groundwater Elevation — Free Product Elevation

# OUII-E Hydrograph



— Free Product Elevation — Groundwater Elevation

# OUII-F Hydrograph



— Groundwater Elevation — Free Product Elevation

**ATTACHMENT C**

**Signed Manifest**





<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>NYD084006477</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>CHIEF DISPATCHER 212-340-2050</b>	4. Waste Tracking Number <b>90179 D</b>			
5. Generator's Name and Mailing Address <b>METRO NORTH RAILROAD C/O ENVIRONMENTAL DEPT 525 NORTH BROADWAY WHITE PLAINS, NY 10603</b>		Generator's Site Address (if different than mailing address) <b>METRO NORTH RAILROAD HARMON YD 100 CROTON HARMON YARDS CROTON ON HUDSON, NY 10520</b>					
Generator's Phone: <b>914-461-0560 ATTN:KAREN MIELE</b>							
6. Transporter 1 Company Name <b>FREEHOLD CARTAGE, INC.</b>			U.S. EPA ID Number <b>NJD054126164</b>				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address <b>EQ DETROIT, INC. 1923 FREDERICK DETROIT, MI 48211</b>			U.S. EPA ID Number <b>MID980991566</b>				
Facility's Phone: <b>313-347-1300</b>							
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
		No.	Type				
1. <b>NON-REGULATED MATERIAL (OU II - OIL/WATER)</b>		<b>4</b>	<b>DM</b>	<b>1800 EST</b>	<b>P</b>	<b>021L</b>	
2.							
3.							
4.							
13. Special Handling Instructions and Additional Information <b>1.) OU II - WASTE OIL/WATER ITEM 17 (KF051050) WTS ORDER # 90179</b>							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offeror's Printed/Typed Name <b>Karen Miele Metro North Railroad</b>				Signature <i>Karen Miele</i>	Month <b>08</b>	Day <b>09</b>	Year <b>21</b>
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
16. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Michael Brockm</i>				Signature <i>[Signature]</i>	Month <b>08</b>	Day <b>09</b>	Year <b>21</b>
Transporter 2 Printed/Typed Name				Signature	Month	Day	Year
17. Discrepancy							
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
17b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone: _____							
17c. Signature of Alternate Facility (or Generator)					Month	Day	Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name <b>Robert Roach</b>				Signature <i>[Signature]</i>	Month <b>8</b>	Day <b>19</b>	Year <b>21</b>

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY