SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: OCTOBER 1, 2019 THROUGH DECEMBER 31, 2019

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 October 1, 2019 and December 31, 2019 at the Harmon Railroad Yard OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This document was prepared in accordance with the provisions of the document tilted *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. The results of the work completed during the report period are summarized below.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: Monitoring completed during this reporting period included the measurement of static water levels and free product thicknesses (if present) in select functioning wells within OU-I and OU-II (and off-site monitoring wells designated OUII-A through OUII-F). The wells monitored and the results of this monitoring are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured in November 2019 is included as Figure 1. As shown on Figure 1, apparent groundwater sinks are located in proximity of FA4-13 and FA4-15 (i.e., near the wells with Spill Buster™ pumps installed) and FA4-17 (i.e., a well with a Spill Buster™ pump installed). An apparent groundwater mound is shown in the approximate location of AI1-11 (i.e., near the Area L1 Sheet Pile Wall).

FREE PRODUCT REMOVAL RECORDS: The logs included in Attachment A also summarize the amount of free product removed (if any) from wells during this report period. [Note: During the report period, free product was removed from wells AI2-3, RW-1, and FA4-8 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™.] [Note: A Spill Buster™ is installed in well FA4-17; however, based on the log (refer to Attachment A), free product was not removed from this well in the current report period.] A summary of the amount of free product removed from each well during the current report period is presented on Table 1. A summary of the total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and September 30, 2019) is presented on 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 October 1, 2019 and December 31, 2019) and the preceding report period (i.e., between June 1, 2019 and September 30, 2019) is included as Figure 2.

The free product removed was placed in 55-gallon drums, which were stored in a waste accumulation area. Drums were not removed from the waste accumulation area for off-Site disposal during the current report period.

Note: On November 2, 2018, a request was submitted to the NYSDEC to change the disposal requirements of the collected free product. Specifically, since polychlorinated biphenyls (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.

On October 25, 2019, samples of full drums were collected and submitted to York Analytical Laboratories, Inc. (York) for testing of PCBs. PCBs were detected at concentrations greater than the laboratory method detection limit in two of the three PCBs sample tested; however, the concentration of PCBs in these samples were less than 50 ppm (i.e., these drums can be disposed of as a non-hazardous petroleum waste). A copy of the analytical laboratory report is provided in Attachment B.

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and September 2019 (the most recent sampling event) are included for reference purposes. The groundwater test results include volatile organic compounds (i.e., Table 3), semi-volatile organic compounds (i.e., Table 4), polychlorinated biphenyls (i.e., Table 5), metals (i.e., Table 6), and perfluorinated compounds and 1,4-dioxane (i.e., Table 7).

The next groundwater sampling event is scheduled for on, or about, June 2020. During this event samples should be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, metals, and perfluorinated compounds and 1,4-dioxane.

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). Weekly monitoring of these monitoring wells commenced on October 4, 2016 to assess static water levels and free product thicknesses. The results of the monitoring 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 and OUII-E in the current report period. Table 8 shows the range of static water levels (SWLs) and the free product thickness measured in each well during the monitoring events completed to date. While the thickness of free product detected in the off-site wells generally appears to be decreasing; the amount of free product present within the off-site wells appears to be seasonally influenced (i.e., higher in fall and lower in spring). 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.

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. 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 one occasion in SP-North (reported thickness of 0.03 ft. on March 15, 2017); however, the depth to free product was reported as 'suspect', as it was not identified during subsequent monitoring events. 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: An inspection of OU-I and OU-II was not required during this report period. The next inspection is tentatively scheduled for April 2020.

During the most recent inspection of the OU-I and OU-II areas (i.e., conducted on September 10, 2019), the following items requiring corrective actions were identified.

- Although some work was completed during the previous report periods, additional scrap and surplus equipment needs to be removed from locations within OU-II on top of the capped area;
- A curb box is required to be installed at well AI-1-16. This curb box has not yet been repaired.

No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between January 1, 2020 and March 31, 2020), it is anticipated that 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). As such, it is anticipated that free product will be removed from wells RW-1, AI2-3, FA4-8, and FA4-17 using the Spill Buster™ system, and potentially other locations (e.g., FA4-13 and/or FA4-15 depending on the quantity of free product detected). A portable Spill Buddy™ will be used to remove free product from other wells, if warranted. If 0.5 ft. or more of free product is measured in a two-inch inner diameter (ID) well or 0.3 ft. or more of free product is measured in a four-inch ID well, it will be removed using a Spill Buddy™ (or similar). [Note: In the event that between 0.2 ft. and 0.5 ft. of free product is detected in a two-inch ID well or between 0.2 ft. and 0.3 ft. of free product is detected in a four-inch ID well during monitoring events, the free product will be removed from this location at least two times per year (i.e., in the spring and fall quarters when free product levels typically increase) using a Spill Buddy™ and/or bailer.]

In the event additional free product drums are generated during the next reporting period, samples should be collected and tested, as outlined in the SMP. The full free product drums that were tested during this report period 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.]

The off-site monitoring wells should continue to be monitored on a weekly basis. During the upcoming reporting period, if sufficient free product is detected in these wells, samples of free product will be collected and submitted to an analytical laboratory for testing of PCBs.

The next OU-I/OU-II inspection is due on or about April 2020. A SMP status report for the work completed during the upcoming period (i.e., January 1, 2020 through March 31, 2020) will be submitted in April 2020. The next groundwater sampling and testing will be completed on, or about, August 30, 2020.

A Periodic Review Report (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

Figures

Attachments

F:\Clients - Major\MNR\Harmon Yard\Remediation (46) Reports\OU I & OU II\OUI-OUII Status Reports\2020-1 SMP Status Report Qtr 4 2019\TEXT PC.5063M-15 Harmon OUI-OUII - SMP STATUS REPORT Qt 4 2019.docx

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: October 1, 2019 through December 31, 2019

OU I	
Well ID	Gallons Removed
V1	0
V2	0
V3	0
V4	5.26
Total	**5.26**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	0
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**0**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	65.0
VE2-1	0
Total	**65**

Free Product AREA L3	
AI3-4	0
AI3-5	NM
AI3-6	0
VE3-1	0
Total	**0**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	28.5
FA4-9	0
FA4-10	NM
FA4-11	4.88
FA4-12	0
FA4-13	0
FA4-14	10.51
FA4-15	0.5
FA4-16	1
FA4-17*	0.00
FA4-18	1.38
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0.25
RW-1*	61.2
VE4-1	0
VE4-5	4.38
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	0
Total	**112.60**

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 - September 30, 2019

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	125.81
Total	**155.305**

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	13.61
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**23.602**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3	798.03
VE2-1	0
Total	**799.66**

Free Product AREA L3	
AI3-4	0.34
AI3-6	0.5
VE3-1	15.88
Total	**16.72**

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	322.16
FA4-9	3.23
FA4-10	0.13
FA4-11	132.64
FA4-12	9.67
FA4-13	101.3
FA4-14	212.64
FA4-15	64.76
FA4-16	56.67
FA4-17	56.52
FA4-18	101.87
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	21.95
RW-1	1361
VE4-1	0
VE4-5	183.71
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	4.93
VE4-11	0
VE4-12	0
VE4-13	0
Total	**2649.56**

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

Summary of Volatile Organic Compounds
Groundwater Samples

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

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																														
		VE 3-1										VE 4-11										DAY 1										
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/2019
1,2,4-Trimethylbenzene	5	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	**5.2**	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.78	ND [0.11]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]
1,3,5-Trimethylbenzene	5	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]
Chlorobenzene	5	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]
Naphthalene	10	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	1.9 J, B	ND [10]	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT
n-Butylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]
p-Isopropyltoluene	NS	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date												
		Field Blank							Trip Blank					
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]

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 concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated concentration.
B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
BOLD TYPE indicates the reported concentration or reporting limit exceeds the groundwater standard or guidance value

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

Summary of Semi-Volatile Organic Compounds
Groundwater Samples

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

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																					
		VE 3-1										VE 4-11											
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [10]	ND [10]	ND [2.91]	ND [2.50]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.40]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.60]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]
Fluorene	50	ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [5.13]**	**ND [5.71]**	**ND [6.06]**	**ND [25.0]**	**ND [6.67]**	**ND [0.06]**	**ND [10.3]**	**ND [10]**	ND [10]	ND [0.0526]	**ND [3.30]**
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]
Phenanthrene	50	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50]	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		DAY 1										Field Blank						
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]

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 concentation 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 (PCBs)
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																													
		VE 1-2										VE 1-4										VE 2-1									
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	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	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
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 [0.0513]	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 [0.0513]	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]
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 [0.0513]	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 [0.0513]	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]
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 [0.0513]	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 [0.0513]	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]
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 [0.0513]	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 [0.0513]	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]
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 [0.0513]	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 [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]
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 [0.0513]	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 [0.0513]	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]
Aroclor 1260	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 [0.0513]	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 [0.0513]	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]
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 [0.0513]	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 [0.0513]	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]
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 [0.0513]	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 [0.0513]	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]
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 [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 [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

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																			
		VE 3-1										VE 4-11									
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19
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 [0.0513]	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]
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 [0.0513]	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]
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 [0.0513]	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]
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 [0.0513]	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]
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 [0.0513]	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]
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 [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J
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 [0.0513]	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]
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 [0.0513]	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]
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 [0.0513]	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]
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 [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		DAY 1										Field Blank						
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	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 [0.0513]	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 [0.0513]	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 [0.0513]	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 [0.0513]	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 [0.0513]	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 [0.0513]	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 [0.0513]	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 [0.0513]	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 [0.0513]	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 [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 concentation greater than the reporting limit shown in brackets

NS = No Standard

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

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

Summary of Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																			
		VE 1-2										VE 1-4									
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	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
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 [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]
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]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	9.93 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	5.01 J
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																			
		VE 2-1										VE 3-1									
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	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
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 [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]
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 [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	3.74 J	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.70
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	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	9.18

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date																			
		VE 4-11										DAY 1									
		3/27/12	9/11/12	/11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	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
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 [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]
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 [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]
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	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	7.79 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	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J

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

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	Test Location and Sample Date																
	VE 1-2	VE 1-4			VE 2-1					VE 3-1	VE 4-11			DAY 1	Field Blank		
	8/2/17	8/2/17	11/27/18	9/10/19	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	8/2/17	8/2/17	11/27/18	9/10/19	8/2/17	2017	2018	FB91119
Perfluoroheptanoic acid (PFHpA)	ND [0.79]	7.7	45	12.9	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3	ND [0.81]	ND [2.0]	ND [10]	5.4	ND [0.67]	ND [2.0]	ND [10]
Perfluorooctanoic acid (PFOA)	5.2	29	50	51.3	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	5.6	ND [0.75]	ND [2.0]	ND [10]	18	ND [0.62]	ND [2.0]	ND [10]
Perfluorononanoic acid (PFNA)	1.3 J	2.8	7.1	ND [10]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	1.1 J	ND [0.66]	ND [2.0]	ND [10]	2.4	ND [0.54]	ND [2.0]	ND [10]
Perfluorodecanoic acid (PFDA)	ND [0.43]	ND [0.43]	4.1	ND [10]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]
Perfluoroundecanoic acid (PFUnA)	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]
Perfluorododecanoic acid (PFDoA)	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]
Perfluorotridecanoic acid (PFTriA)	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]
Perfluorotetradecanoic acid (PFTeA)	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]
Perfluorohexanesulfonic acid (PFHxS)	7.4	9.7	11	20.3	24	3.4	5.4	ND [10]	ND [10]	2	39	ND [2.0]	10.5	5.0	ND [0.72]	ND [2.0]	ND [10]
Perfluoroheptanesulfonic acid (PFHpS)	ND [0.70]	0.77 J	2.2	ND [10]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]
Perfluorooctanesulfonic acid (PFOS)	37	62	43	63.3	55	16	21	42.9	38.2	14	7.2	4.2	ND [10]	16	ND [1.1]	ND [2.0]	ND [10]
Perfluorodecanesulfonic acid (PFDS)	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]
Perfluorooctane Sulfonamide (FOSA)	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]
Perfluorobutanoic acid (PFBA)	ND [22]	ND [22]	10	13.4	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2200 B Cl	ND [23]	ND [2.0]	ND [10]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]
Perfluoropentanoic acid (PFPeA)	ND [48]	ND [48]	93	14.6	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [50]	ND [50]	ND [2.0]	ND [10]	4600 Cl	ND [0.82]	ND [2.0]	ND [10]
Perfluorohexanoic acid (PFHxA)	ND [39]	ND [38]	50	14.2	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [39]	ND [40]	5.7	ND [10]	ND [39]	ND [0.65]	ND [2.0]	ND [10]
Perfluorobutanesulfonic acid (PFBS)	ND [45]	ND [45]	13	ND [10]	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [46]	ND [46]	15	ND [10]	ND [46]	ND [0.76]	ND [2.0]	ND [10]
6:2 Fluorotelomersulfonate (6:2 FTS)	NT	NT	50	ND [25]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	NT	NT	ND [2.0]	ND [25]	NT	NT	ND [2.0]	ND [25]
8:2 Fluorotelomersulfonate (8:2 FTS)	NT	NT	5.3	ND [10]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	NT	NT	ND [2.0]	ND [10]	NT	NT	ND [2.0]	ND [10]
NMeFOSAA	NT	NT	ND [2.0]	ND [10]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	NT	NT	ND [2.0]	ND [10]	NT	NT	ND [2.0]	ND [10]
NEtFOSAA	NT	NT	ND [2.0]	ND [10]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	NT	NT	ND [2.0]	ND [10]	NT	NT	ND [2.0]	ND [10]
PFOA & PFOS	42.2	91	93	114.6	62.7	16	21	42.9	38.2	19.6	7.2	4.2	-	34	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	7.4	9.7	93	20.3	24	3.4	5.4	0	0	3.3	39	15	10.5	5.4	ND	ND	ND
Total PFAS	49.6	111.2	383.7	190	93.3	19.4	26.4	42.9	38.2	24.9	46.2	24.9	10.5	46.8	ND	ND	ND
1,4-Dioxane	NT	NT	ND [200]	ND [200]	NT	ND [200]	ND [200]	ND [200]	NT	NT	NT	ND [200]	ND [200]	NT	NT	ND [200]	NT

Notes:

All results are in nanograms per liter (ng/L) or parts per trillion (ppt)

ND (Method Detection Limit) [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

Cl = 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

The NYSDEC does not have groundwater standard or guidance values for perfluorooctanoic acid (PFOA) or prefluorooctanesulfonic acid (PFOS); however, in 2016 the United States Environmental Protection Agency (USEPA) issued a health advisory level of 70 nanograms per liter (ng/l) or parts per trillion (ppt) for the combined concentration of PFOA and PFOS in drinking water sources.

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

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

N

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 (6.14 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 November 2019
- 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	01-2020
DRAWN BY	CPS
DATE DRAWN	01-2020
SCALE	As Noted
DATE ISSUED	01-06-2020

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

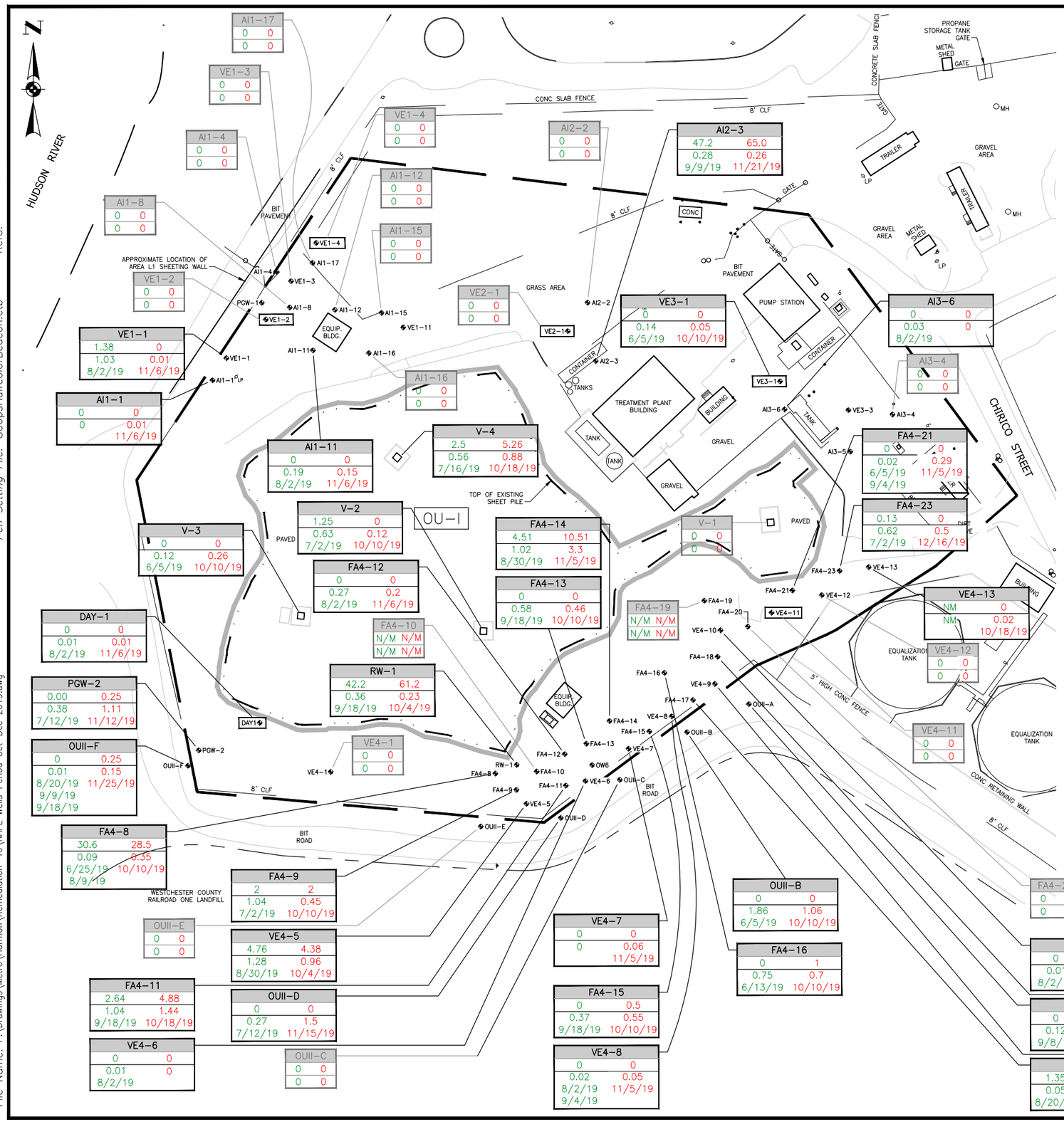
Drawing Title
SITE MANAGEMENT PLAN

Groundwater Contour Map: November 2019

Project No.
15-3356M (46)

FIGURE 1

Last Date Saved: 06 Jan 2020 Document Path: \\MN\RGIS\MNR_Documents\GIS_Data\MNR\North White Plains\Project Status Reports Figures\Remediation_OU_OUI_20191101.mxd



SITE PLAN
1" = 80'

0' 80' 160' 240'

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
- FA4-23 (0.13 / 0 / 0.62 / 0.5 / 7/2/19 / 12/16/19) — 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 June 1, 2019 Through September 30, 2019 Shown In Green (Left)

Measurements Made During The Report Period October 1, 2019 Through December 31, 2019 Shown In Red (Right)

N/M — Well Not Measured

PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted
DATE	1/2020
DATE DRAWN	1/7/2020
DATE ISSUED	1/7/2020

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

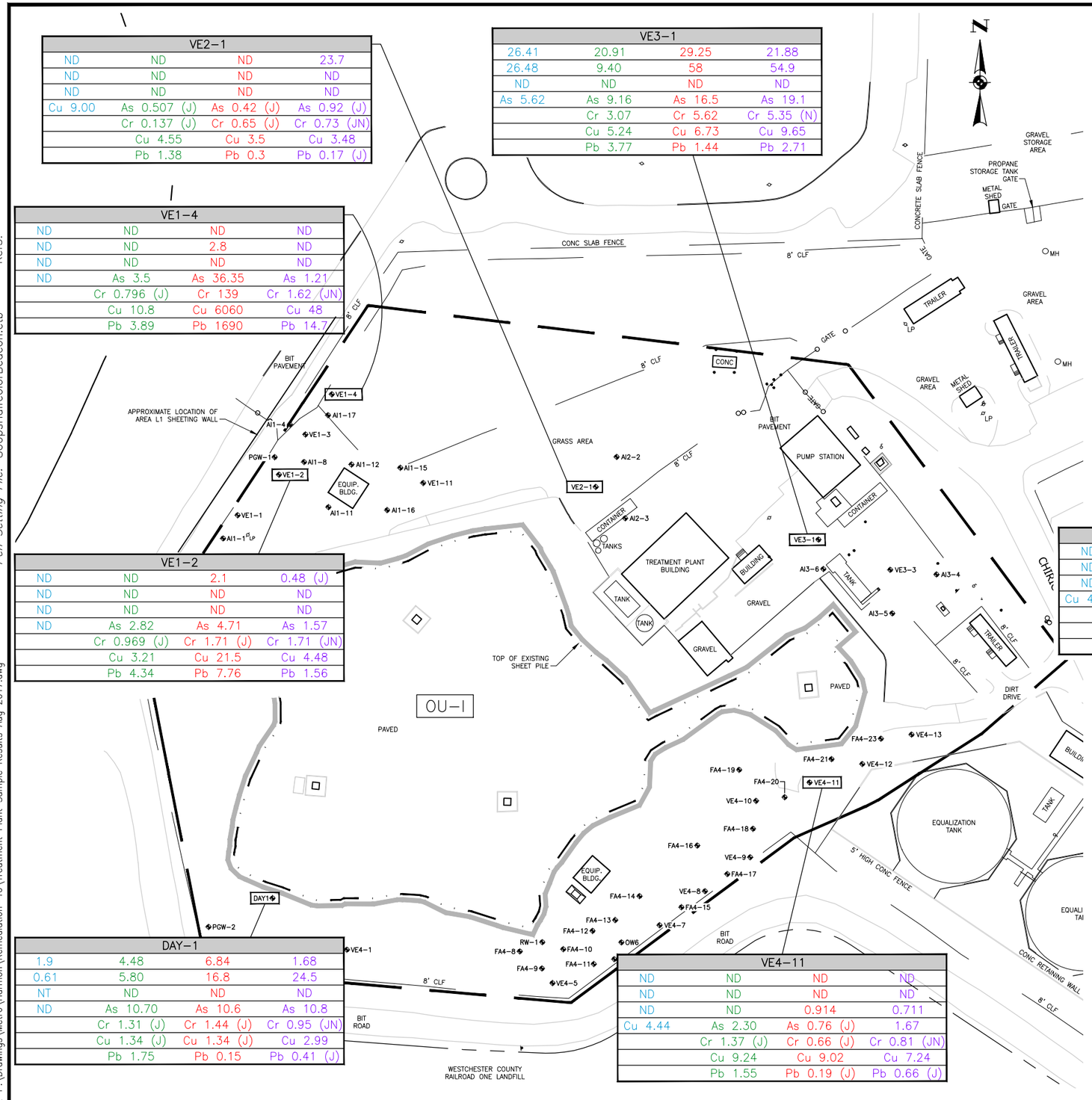
PROJECT TITLE
METRO-NORTH RAILROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK
NYSDEC SITE #360010

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods
June - September 2019 & October - December 2019

PROJECT NO.
15-3356M (46)

FIGURE 2

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb
Ref1:
Ref2:
Ref3:
Time Plotted: Tuesday, January 07, 2020 12:53:04 PM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Period Oct-Dec 2019.dwg



SITE PLAN
1" = 80'

0' 80' 160' 240'

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...)

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
- OU-I Contingency Vapor Extraction System Wells

VE4-11
ND ND ND ND
ND ND ND ND
ND ND 0.914 0.711
Cu 4.44 As 2.30 As 0.76 (J) 1.67
Cr 1.37 (J) Cr 0.66 (J) Cr 0.81 (JN)
Cu 9.24 Cu 9.02 Cu 7.24
Pb 1.55 Pb 0.19 (J) Pb 0.66 (J)

- Long-Term Monitoring Well Identification
- Total Concentration Of CP51-List VOC's and Chlorobenzene
- Total Concentration Of CP51-List SVOC's and 2Methylnapthalene
- Concentration Of Total PCB's
- Concentration Of Detected Metals (As, Cr, Cu, Pb)

(J) Estimated Concentration

(N) Indicates The Spiked Sample Recovery Is Not Within Control Limits

ND Constituents Not Detected

NT Not Tested

Long-Term Monitoring Results For Samples Collected On May 27, 2014 And May 28, 2014 Shown In Blue

Long-Term Monitoring Results For Samples Collected On May 19, 2015 And May 20, 2015 Shown in Green

Long-Term Monitoring Results For Samples Collected On May 17, 2016 And May 18, 2016 Shown In Red

Long-Term Monitoring Results For Samples Collected On August 2, 2017 And August 3, 2017 Shown In Purple

NOTES:

1. All results in ug/L or parts per billion.
2. If metals were detected specific metal and concentration are identified.

PROJECT MANAGER	HMM	DATE	9-2017
DRAWN BY	RJM	DATE DRAWN	9-22-2017
SCALE	As Noted	DATE ISSUED	9-22-2017

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
Long-Term Monitoring Results Samples Collected May 27 & 28, 2014, May 19 & 20, 2015, May 17 & 18, 2016 & August 2 & 3, 2017

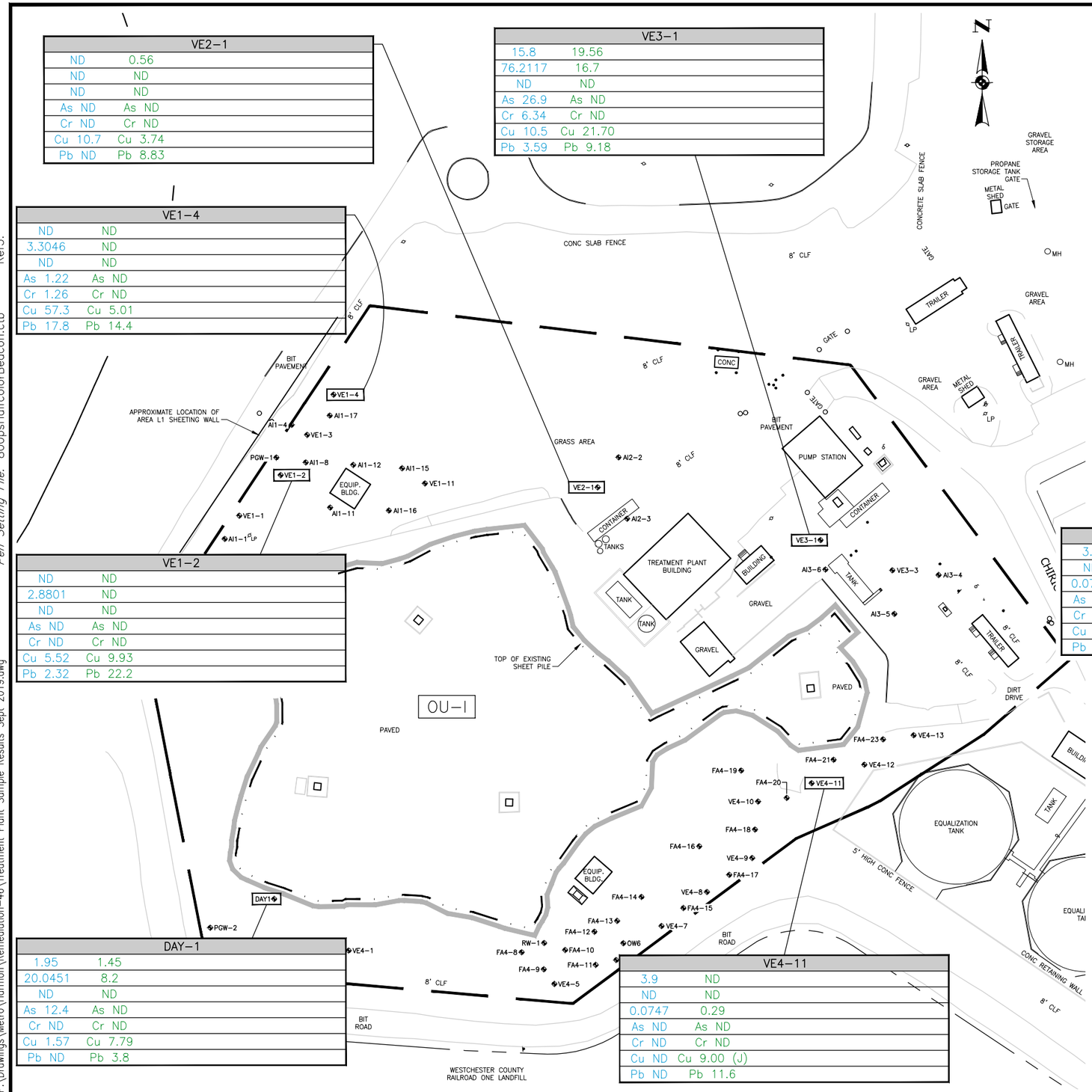
PROJECT NO.
15-3356M (46)

FIGURE 3

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb

Time Plotted: Friday, September 22, 2017 1:40:44 PM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\Treatment Plant Sample Results Aug 2017.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...)

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
	OU-I Contingency Vapor Extraction System Wells

VE4-11 — Long-Term Monitoring Well Identification
3.9 ND — Total Concentration Of CP51-List VOC's and Chlorobenzene
ND ND — Total Concentration Of CP51-List SVOC's and 2Methylnapthalene
0.0747 0.29 — Concentration Of Total PCB's
As ND As ND — Concentration Of Detected Metals (As, Cr, Cu, Pb)
Cr ND Cr ND
Cu ND Cu 9.00 (J)
Pb ND Pb 11.6

(J)	Estimated Concentration
(N)	Indicates The Spiked Sample Recovery Is Not Within Control Limits
ND	Constituents Not Detected
NT	Not Tested

Long-Term Monitoring Results For Samples Collected On November 27, 2018 And November 28, 2014 Shown In Blue

Long-Term Monitoring Results For Samples Collected On September 10, 2019 And September 11, 2019 Shown in Green

NOTES:

1. All results in ug/L or parts per billion.
2. If metals were detected specific metal and concentration are identified.

PROJECT MANAGER	HMM
DATE	9/2019
DRAWN BY	RJM
DATE DRAWN	10/9/2019
SCALE	As Noted
DATE ISSUED	10/9/2019

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
Long-Term Monitoring Results
Samples Collected September 10 & 11, 2019

PROJECT NO.
15-3356M (46)

FIGURE 3A

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfcolorBeacon.ctb

Time Plotted: Wednesday, October 09, 2019 8:12:35 AM
File Name: P:\Drawings\Metro\Harmon\Remediation-46\Treatment Plant Sample Results Sept 2019.dwg

ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
October 1, 2019 through December 31, 2019

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**
11/6/2019	-	13.60	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	-	13.54	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	-	13.89	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**
11/6/2019	-	13.48	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**
11/6/2019	-	13.76	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					

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**
11/6/2019	-	13.81	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**
11/6/2019	-	13.48	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	-	13.52	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**
11/5/2019	-	13.36	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**
10/10/2019	-	16.30	0	0	
11/5/2019	-	16.35	0	0	
12/16/2019	-	15.88	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**
10/10/2019	17.54	17.66	0.12	0	
12/16/2019	-	-	-	-	Not Measured

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**
10/10/2019	17.15	17.41	0.26	0	
11/5/2019	16.85	16.88	0.03	0	
12/16/2019	16.33	16.55	0.22	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	16.36	16.88	0.52	0	
10/10/2019	16.38	17.18	0.8	0.38	
10/18/2019	16.22	17.1	0.88	0.63	
10/24/2019	16.42	16.69	0.27	0	
11/1/2019	16.03	16.75	0.72	1	
11/5/2019	16	16.32	0.32	0	
11/15/2019	16.25	16.65	0.4	0	
11/21/2019	16.2	16.89	0.69	1.25	
11/25/2019	16.25	16.69	0.44	0	
12/3/2019	16.05	16.32	0.27	0	
12/11/2019	15.85	16.6	0.75	1	
12/16/2019	15.48	16.15	0.67	1	

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**
11/6/2019	11.05	11.06	0.01	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**
11/6/2019	-	10.25	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**
11/6/2019	-	13.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	13.58	13.73	0.15	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**
11/6/2019	-	17.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	-	18.51	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	-	13.76	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	-	12.08	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	-	9.7	0	0	
10/10/2019	-	9.75	0	0	
10/18/2019	-	9.62	0	0	
10/24/2019	-	9.65	0	0	
11/1/2019	-	9.25	0	0	
11/5/2019	-	9.46	0	0	
11/15/2019	-	9.81	0	0	
11/21/2019	-	9.64	0	0	
11/25/2019	-	9.55	0	0	
12/3/2019	-	9.35	0	0	
12/11/2019	-	9.52	0	0	
12/16/2019	-	8.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
11/6/2019	8.61	8.62	0.01	0	

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**
11/6/2019	-	9.37	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**
11/6/2019	-	8.56	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**
11/6/2019	-	10.09	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**
11/6/2019	-	8.73	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**
11/6/2019	-	14.93	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***
10/4/2019	15.6	15.61	0.01	0	Drum- 0.98
10/10/2019	15.58	15.69	0.11	0	Drum- 1.35
10/18/2019	15.64	15.69	0.05	0	drum- 1.85
10/24/2019	15.6	15.61	0.01	0	Drum- 2.15
11/1/2019	15.35	15.37	0.02	0	Drum- New 3.08
11/5/2019	15.25	15.36	0.11	0	Drum 0.72
11/6/2019	15.25	15.36	0.11	0	
11/15/2019	15.36	15.56	0.2	0	Drum- 0.40
11/21/2019	15.21	15.47	0.26	0	Drum- 0.67
11/25/2019	15.14	15.2	0.06	0	Drum- 0.66
12/3/2019	15.05	15.06	0.01	0	Drum- 0.73
12/11/2019	14.92	15.01	0.09	0	Drum- 0.78
12/16/2019	14.73	14.81	0.08	0	Drum- 0.75

*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 9/23/2019 stated 'new drum'. Total amount of Free Product Recovered = 65 gallons

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**
11/6/2019	-	11.36	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**
11/6/2019	-	13.67	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 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**
11/6/2019	-	16.54	0.00	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**
10/10/2019	14.34	14.39	0.05	0	
11/5/2019	13.88	13.91	0.03	0	
12/16/2019	13.13	13.33	0.2	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**
11/6/2019	16.05	16.06	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
10/4/2019	16.94	17.05	0.11	0	Drum- 2.15
10/10/2019	16.83	17.18	0.35	0	Drum- 2.3
10/18/2019	17.13	17.26	0.13	0	Drum-2.45 Full
10/24/2019	16.85	16.87	0.02	0	
11/1/2019	16.68	16.72	0.04	0	Drum- 3.10
11/5/2019	16.5	16.51	0.01	0	Drum- 0.15
11/15/2019	16.52	16.54	0.02	0	Drum-0.40
11/21/2019	16.46	16.47	0.01	0	Drum- 0.41
11/25/2019	16.26	16.32	0.06	0	Drum- 0.44
12/3/2019	16.41	16.43	0.02	0	Drum- 0.47
12/16/2019	15.8	15.95	0.15	0	DRUM- 0.52

*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 9/23/2019 stated 'drum 2.01 ft'. Total amount of Free Product Recovered = 28.5 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**
10/10/2019	8.75	9.2	0.45	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	11.65	13.02	1.37	1	
10/10/2019	11.62	13.04	1.42	1	
10/18/2019	11.7	13.14	1.44	1	
10/24/2019	11.7	12.89	1.19	1.13	
11/1/2019	11.28	12.6	1.32	0.75	
11/5/2019	11.29	11.35	0.06	0	
11/6/2019	11.29	11.35	0.06	0	
11/15/2019	11.4	11.63	0.23	0	
11/21/2019	11.2	11.33	0.13	0	
11/25/2019	10.99	11.17	0.18	0	
12/3/2019	10.74	10.75	0.01	0	
12/11/2019	10.38	10.44	0.06	0	
12/16/2019	10.03	10.08	0.05	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**
11/6/2019	14.15	14.35	0.20	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	11.1	11.45	0.35	0	
10/10/2019	11.13	11.59	0.46	0	
10/24/2019	11.1	11.28	0.18	0	
11/1/2019	10.69	10.85	0.16	0	
11/5/2019	10.71	10.83	0.12	0	
11/15/2019	10.83	11.14	0.31	0	
11/21/2019	10.6	10.81	0.21	0	
11/25/2019	10.33	10.68	0.35	0	
12/3/2019	10.12	10.34	0.22	0	
12/11/2019	9.72	9.98	0.26	0	
12/16/2019	9.38	9.72	0.34	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	13.55	14.72	1.17	1.25	
10/10/2019	13.52	14.81	1.29	1.5	
10/18/2019	13.57	14.84	1.27	1.38	
10/24/2019	13.55	14.35	0.8	1.31	
11/1/2019	13.3	14.1	0.8	0.63	
11/5/2019	13.15	16.45	3.3	0	
11/15/2019	13.28	14.86	1.58	1	
11/21/2019	13.09	13.75	0.66	1	
11/25/2019	12.91	13.61	0.7	1	
12/3/2019	12.75	12.95	0.2	0	
12/11/2019	12.56	13.24	0.68	0.63	
12/16/2019	12.19	13	0.81	0.81	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	10.55	10.95	0.4	0	
10/10/2019	10.56	11.11	0.55	0.5	
10/18/2019	10.64	10.86	0.22	0	
10/24/2019	10.62	10.78	0.16	0	
11/1/2019	10.3	10.35	0.05	0	
11/5/2019	10.15	10.16	0.01	0	
11/6/2019	10.15	10.16	0.01	0	
11/15/2019	10.3	10.43	0.13	0	
11/21/2019	10.05	10.08	0.03	0	
11/25/2019	9.89	9.97	0.08	0	
12/3/2019	9.76	9.8	0.04	0	
12/11/2019	9.46	9.61	0.15	0	
12/16/2019	9.09	9.22	0.13	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	14.65	14.94	0.29	0	
10/10/2019	14.64	15.34	0.7	0.5	
10/18/2019	14.7	15.28	0.58	0.5	
10/24/2019	14.7	14.86	0.16	0	
11/1/2019	14.48	14.7	0.22	0	
11/5/2019	14.3	14.31	0.01	0	
11/15/2019	14.38	14.67	0.29	0	
11/21/2019	14.25	14.36	0.11	0	
11/25/2019	0	14.11	0	0	
12/3/2019	0	13.95	0	0	
12/11/2019	0	13.75	0	0	
12/16/2019	0	13.49	0	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
10/4/2019	10.8	10.81	0.01	0	Drum- 1.82
10/10/2019	10.8	11.1	0.3	0	Drum- 1.80
10/18/2019	10.8	11.3	0.5	0	Drum- 1.77
10/24/2019	10.8	10.9	0.1	0	DRUM-1.8
11/1/2019	10.49	10.55	0.06	0	Drum- 1.80
11/5/2019	10.4	10.43	0.03	0	
11/15/2019	11.5	11.93	0.43	0	Drum- 1.75
11/21/2019	10.31	10.38	0.07	0	Drum- 1.82
11/25/2019	11.15	11.18	0.03	0	Drum- 1.77
12/3/2019	9.96	9.98	0.02	0	Drum- 0.25
12/11/2019	0	10.8	0	0	Drum- 1.82
12/16/2019	9.5	9.53	0.03	0	DRUM- 1.82

*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 9/9/19 stated 'drum 1.82 ft'. Free product not recovered in current reporting period

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	13.18	13.58	0.4	0	
10/10/2019	13.18	13.75	0.57	0.88	
10/18/2019	13.19	13.78	0.59	0.5	
10/24/2019	13.21	13.42	0.21	0	
11/1/2019	12.9	13.23	0.33	0	
11/5/2019	12.75	12.94	0.19	0	
11/15/2019	12.86	13.15	0.29	0	
11/21/2019	12.76	12.94	0.18	0	
11/25/2019	12.61	12.91	0.3	0	
12/3/2019	12.51	12.53	0.02	0	
12/11/2019	-	12.22	0	0	
12/16/2019	-	11.93	0	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**
11/6/2019	-	13.01	0.00	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**
10/10/2019	14.1	14.12	0.02	0	
11/5/2019	13.6	13.89	0.29	0	
12/16/2019	12.39	12.48	0.09	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**
10/10/2019	13.3	13.34	0.04	0	
11/5/2019	-	12.9	0	0	
12/16/2019	12.15	12.65	0.5	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	7.51	7.95	0.44	0	
10/10/2019	7.38	8.45	1.07	0	
10/18/2019	7.24	7.38	0.14	0	
10/24/2019	7.62	8.12	0.5	0	
11/1/2019	6.4	7.51	1.11	0.25	
11/5/2019	6.12	6.25	0.13	0	
11/15/2019	6.81	6.88	0.07	0	
11/21/2019	6.15	6.16	0.01	0	
11/25/2019	5.6	5.88	0.28	0	
12/3/2019	5.35	5.38	0.03	0	
12/11/2019	4.76	5.48	0.72	0	
12/16/2019	4.55	5.45	0.9	0	

Metro-North Railroad Free Product Recovery Report

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

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
10/4/2019	14.82	15.05	0.23	0	Drum- 2.35 (FULL)
10/10/2019	14.96	15.05	0.09	0	Drum- 0.70
10/18/2019	15.07	15.11	0.04	0	Drum-1.29
10/24/2019	15.02	15.03	0.01	0	DRUM-1.65
11/1/2019	14.8	14.82	0.02	0	Drum-0.13
11/5/2019	14.59	14.6	0.01	0	Drum- 0.15
11/15/2019	14.72	14.91	0.19	0	Drum- 0.15
11/21/2019	14.61	14.62	0.01	0	Drum- 0.19
11/25/2019	14.38	14.4	0.02	0	Drum-0.25
11/26/2019	13.62	13.64	0.02	0	drum 0.25 ft
12/3/2019	14.25	14.26	0.01	0	Drum-0.25
12/11/2019	14.02	14.03	0.01	0	Drum- 0.25
12/16/2019	13.83	13.84	0.01	0	DRUM-0.24

*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 9/23/2019 stated 'drum 2.18 ft'. Total amount of Free Product Recovered = 61.2 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**
11/6/2019	-	8.72	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/4/2019	9.89	10.85	0.96	1	
10/10/2019	9.85	10.4	0.55	0.5	
10/18/2019	9.95	10.61	0.66	0.5	
10/24/2019	9.89	10.35	0.46	0.88	
11/1/2019	9.62	9.82	0.2	0	
11/5/2019	9.51	9.75	0.24	0	
11/15/2019	9.6	10.08	0.48	0	
11/21/2019	9.46	10.02	0.56	1.5	
11/25/2019	9.25	9.85	0.6	0	
12/3/2019	9.15	9.3	0.15	0	
12/11/2019	8.93	9.2	0.27	0	
12/16/2019	8.72	9.22	0.5	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**
11/6/2019	-	6.95	0.00	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**
10/10/2019	8.11	8.12	0.01	0	
11/5/2019	7.46	7.52	0.06	0	
12/16/2019	0	5.51	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/10/2019	-	8.57	0	0	
11/5/2019	8.08	8.13	0.05	0	
12/16/2019	6.84	6.85	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**
10/10/2019	8.7	8.86	0.16	0	
11/5/2019	8.26	8.58	0.32	0	
12/16/2019	0	7.36	0	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**
11/6/2019	12.43	12.44	0.01	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**
11/6/2019	-	13.90	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**
11/6/2019	-	13.63	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
10/18/2019	11.14	11.34	0.20	0	
11/6/2019	10.71	10.83	0.12	0	

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**
10/4/2019	9	9.19	0.19	0	
10/10/2019	8.98	9.52	0.54	0	
10/18/2019	8.95	9.52	0.57	0	
10/24/2019	9.01	9.41	0.4	0	
11/1/2019	8.66	8.73	0.07	0	
11/5/2019	8.48	8.6	0.12	0	
11/15/2019	8.7	8.79	0.09	0	
11/21/2019	-	8.56	0	0	
11/25/2019	8.21	8.22	0.01	0	
12/3/2019	8.08	8.09	0.01	0	
12/11/2019	-	7.72	0	0	
12/16/2019	7.42	7.92	0.5	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**
10/4/2019	8.91	9.81	0.9	0	
10/10/2019	8.54	9.6	1.06	0	
10/18/2019	8.85	9.83	0.98	0	
10/24/2019	8.85	9.43	0.58	0	
11/1/2019	-	8.5	0	0	
11/5/2019	-	8.32	0	0	
11/15/2019	8.53	8.61	0.08	0	
11/21/2019	-	8.38	0	0	
11/25/2019	-	8.05	0	0	
12/3/2019	-	7.91	0	0	
12/11/2019	-	7.55	0	0	
12/16/2019	-	7.4	0	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**
10/4/2019	-	8.78	0	0	
10/10/2019	-	8.46	0	0	
10/18/2019	-	9	0	0	
10/24/2019	-	8.96	0	0	
11/1/2019	-	8.35	0	0	
11/5/2019	-	8.14	0	0	
11/15/2019	-	8.38	0	0	
11/21/2019	-	8.96	0	0	
11/25/2019	-	7.67	0	0	
12/3/2019	-	7.48	0	0	
12/11/2019	-	7.1	0	0	
12/16/2019	-	6.75	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**
10/4/2019	8.98	10.22	1.24	0	
10/10/2019	8.66	10.14	1.48	0	
10/18/2019	9.18	10.37	1.19	0	
10/24/2019	9.05	10.02	0.97	0	
11/1/2019	8.15	8.66	0.51	0	
11/5/2019	8.61	9.2	0.59	0	
11/15/2019	8	9.5	1.5	0	
11/21/2019	8.45	9	0.55	0	
11/25/2019	8.15	8.81	0.66	0	
12/3/2019	8.01	8.35	0.34	0	
12/11/2019	7.58	8.05	0.47	0	
12/16/2019	7.46	7.71	0.25	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**
10/4/2019	-	9.18	0	0	
10/10/2019	-	8.64	0	0	
10/18/2019	-	9.30	0	0	
10/24/2019	-	9.13	0	0	
11/1/2019	-	8.70	0	0	
11/5/2019	-	8.55	0	0	
11/15/2019	-	8.81	0	0	
11/21/2019	-	8.48	0	0	
11/25/2019	-	8.21	0	0	
12/3/2019	-	8.15	0	0	
12/11/2019	-	7.85	0	0	
12/16/2019	-	7.75	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**
10/4/2019	6.86	6.87	0.01	0	
10/10/2019	6.56	6.57	0.01	0	
10/18/2019	6.7	6.75	0.05	0	
10/24/2019	-	9.65	0	0	
11/1/2019	5.55	5.6	0.05	0	
11/5/2019	-	5.41	0	0	
11/15/2019	6.09	6.12	0.03	0	
11/21/2019	-	5.4	0	0	
11/25/2019	4.88	5.03	0.15	0	
12/3/2019	4.45	4.46	0.01	0	
12/11/2019	-	3.91	0	0	
12/16/2019	-	3.85	0	0	

ATTACHMENT B

Analytical Laboratory Report for drum sample collected October 25, 2019

Technical Report

prepared for:

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Tom Roszak

Report Date: 11/04/2019
Client Project ID: Harmon OU II Well Recovery Oil
York Project (SDG) No.: 19J1216

Report Date: 11/04/2019
Client Project ID: Harmon OU II Well Recovery Oil
York Project (SDG) No.: 19J1216

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Tom Roszak

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 28, 2019 with a temperature of 2.8 C. The project was identified as your project: **Harmon OU II Well Recovery Oil**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19J1216-01	Harmon OUII Well # RW1	Oil	10/25/2019	10/28/2019
19J1216-02	Harmon OUII Well FA4-8	Oil	10/25/2019	10/28/2019
19J1216-03	Harmon OUII Misc oil	Oil	10/25/2019	10/28/2019

General Notes for York Project (SDG) No.: 19J1216

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 11/04/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **Harmon OUII Well # RW1** **York Sample ID:** **19J1216-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1216	Harmon OU II Well Recovery Oil	Oil	October 25, 2019 10:30 am	10/28/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.81	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:02	SR
11104-28-2	Aroclor 1221	ND		mg/kg	4.81	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:02	SR
11141-16-5	Aroclor 1232	ND		mg/kg	4.81	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:02	SR
53469-21-9	Aroclor 1242	ND		mg/kg	4.81	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:02	SR
12672-29-6	Aroclor 1248	ND		mg/kg	4.81	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:02	SR
11097-69-1	Aroclor 1254	ND		mg/kg	4.81	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:02	SR
11096-82-5	Aroclor 1260	ND		mg/kg	4.81	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:02	SR
1336-36-3	* Total PCBs	ND		mg/kg	4.81	1	EPA 8082A Certifications:	11/04/2019 09:51	11/04/2019 13:02	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*114 %*	*30-150*

Sample Information

Client Sample ID: **Harmon OUII Well FA4-8** **York Sample ID:** **19J1216-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1216	Harmon OU II Well Recovery Oil	Oil	October 25, 2019 10:35 am	10/28/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.98	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:15	SR
11104-28-2	Aroclor 1221	ND		mg/kg	4.98	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:15	SR
11141-16-5	Aroclor 1232	ND		mg/kg	4.98	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:15	SR
53469-21-9	Aroclor 1242	ND		mg/kg	4.98	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	11/04/2019 09:51	11/04/2019 13:15	SR

Sample Information

Client Sample ID: **Harmon OUII Well FA4-8** **York Sample ID:** **19J1216-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1216	Harmon OU II Well Recovery Oil	Oil	October 25, 2019 10:35 am	10/28/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg	4.98	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:15	SR
							Certifications: CTDOH,NELAC-NY10854			
11097-69-1	**Aroclor 1254**	**41.4**		mg/kg	4.98	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:15	SR
							Certifications: CTDOH,NELAC-NY10854			
11096-82-5	Aroclor 1260	ND		mg/kg	4.98	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:15	SR
							Certifications: CTDOH,NELAC-NY10854			
1336-36-3	*** Total PCBs**	**41.4**		mg/kg	4.98	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:15	SR
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*94.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*114 %*	*30-150*

Sample Information

Client Sample ID: **Harmon OUII Misc oil** **York Sample ID:** **19J1216-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1216	Harmon OU II Well Recovery Oil	Oil	October 25, 2019 10:40 am	10/28/2019

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854			
11104-28-2	Aroclor 1221	ND		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854			
11141-16-5	Aroclor 1232	ND		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854			
53469-21-9	Aroclor 1242	ND		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854			
12672-29-6	Aroclor 1248	ND		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854			
11097-69-1	**Aroclor 1254**	**17.9**		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854			
11096-82-5	Aroclor 1260	ND		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications: CTDOH,NELAC-NY10854			
1336-36-3	*** Total PCBs**	**17.9**		mg/kg	4.94	1	EPA 8082A	11/04/2019 09:51	11/04/2019 13:29	SR
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*103 %*	*30-150*

Sample Information

Client Sample ID: **Harmon OUII Misc oil** **York Sample ID:** **19J1216-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1216	Harmon OU II Well Recovery Oil	Oil	October 25, 2019 10:40 am	10/28/2019

Sample and Data Qualifiers Relating to This Work Order

S-08 The recovery of this surrogate was outside of QC limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 19J1216

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: MNR	Company: Tom Roszak	Company: MNR	Harmon OU II Well Recovery Oil	RUSH - Next Day
Address:	Address: Kenny Mekeel	Address:	YOUR Project Name	RUSH - Two Day
Phone.:	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: Justin Jamison (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Harmon OU II well # RW2	10/25/19 10:30		PCB	1 LTR Amber unpreserved
Harmon OU II Well FA4-8	10/25/19 10:35		PCB	1 LTR Amber unpreserved
Harmon OU II misc oil	10/25/19 10:40		PCB	1 LTR Amber unpreserved

Comments: Email TO: csmelt@daymail
Kmekeel@mnr.org

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Office	10-28-19 12:10		10-28-19 12:50		10-28-19 1446
Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Yalie	10/28/19 1446

Temp. Received at Lab
2.8 Degrees C