

Chiusano, David (DEC)

From: Gianazza, Sara <Gianazza@mnr.org>
Sent: Thursday, March 24, 2016 3:42 PM
To: Chiusano, David (DEC)
Cc: Ray Kampff
Subject: Metro North Railroad - Harmon Yard OUI/OUII - SMP Status Report: 12/1/2016 through 2/29/2016
Attachments: Status Report 12.1.15 to 2.29.16.pdf

Hello David,

Attached please find the OUI/OUII Site Management Plan Status Report for the period 12/1/2016 through 2/9/2016.

Any questions or concerns please just let me know.

Also we have contacted the Village of Croton regarding the monitoring wells and are in the process of drafting an entry permit for their Town attorney to look over.

Regards,
Sara

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SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: DECEMBER 1, 2015 THROUGH FEBRUARY 29, 2016

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 report summarizes the remedial actions and monitoring completed between December 1, 2015 and February 29, 2016 (i.e., the 16th Quarter of operation) 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 titled *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015 and January 31, 2016 (the SMP). During this report period, NAPL and groundwater monitoring was conducted as outlined in the SMP, and NAPL was removed from select wells. The results of the monitoring and NAPL removal conducted during the report period are summarized below.

DEPTH TO GROUNDWATER AND NAPL MEASUREMENTS: During this report period, a quarterly monitoring event was conducted on February 2, 2016/February 3, 2016. This monitoring included the measurement of static water levels and NAPL thicknesses (if present) in functioning wells. The monitoring results are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured on February 2, 2016 and February 3, 2016 is included as Figure 1.

NAPL REMOVAL RECORDS: The NAPL removal records for each well evaluated during this report period are included on the logs in Attachment A. A summary of the total amount of NAPL removed from each well during the current report period is presented on Table 1, and a summary of the total amount of NAPL historically removed from each well between December 1, 2012 and November 30, 2015 is presented on Table 2. A spider diagram presenting the maximum NAPL thicknesses and the amount of NAPL removed from the wells at the Site during the current and preceding report period is included as Figure 2.

NAPL/SOIL DISPOSAL RECORDS: The OU-II NAPL accumulation area was inspected on December 8, 2015, and no evidence of leakage/spillage was observed in proximity of the NAPL and NRD collection drums stored in this area. During this inspection, it was determined that one 55-gallon drum contained approximately 30 gallons of NAPL that was removed from recovery well RW-1 and one 55-gallon drum contained approximately 50 gallons of NAPL that was removed from other OU-I and OU-II area wells were present in the NAPL accumulation area. In addition, two 55-gallon drums containing approximately 90 gallons of spent NRDs were observed in the accumulation area.

[Note: Due to re-construction activities currently underway at the Harmon Railroad Yard, the former waste accumulation area continues to be inoperable, and therefore the full accumulated

NAPL drums are being temporarily stored in the OU-II NAPL accumulation area while awaiting disposal.]

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing was not required during the report period. However, test results for the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and May 20, 2015 (the most-recent sampling event), are included for reference purposes in this report on Table 3A (volatile organic compounds), Table 3B (semi-volatile organic compounds), Table 3C (polychlorinated biphenyls), and Table 3D (metals).

PROBLEMS ENCOUNTERED/RESOLUTION: During a September 10, 2015 inspection of the OU-I and OU-II areas, the following items requiring corrective actions were identified.

- Evidence of settlement, ponding of surface water, and minor cracking was observed over portions of the OU-I asphalt pavement;
- The well casing for NAPL monitoring and recovery well AI1-16 was noted to be broken at the ground surface;
- The removal of the stacked railroad ties surrounding monitoring and recovery well V-2 had not been completed; and
- Accumulated debris/materials were noted on the slopes in various locations around the OU-II areas.

The repairs and maintenance required to resolve the deficiencies identified in the OU-I and OU-II areas were initiated during the previous reporting period, and continued during the current period until weather conditions prevented further work. Visual observations of the crack sealing work completed on December 9, 2015 indicated that greater than 90% of target cracks (i.e., cracks greater than approximately ¼ inch in width) in accessible areas (i.e., not covered by debris or equipment) have been sealed. It is anticipated that the crack sealing work will continue in the Spring of 2016 subsequent to the removal of additional debris/material from the OU-I asphalt pavement. It is also anticipated, that the well casing for AI1-6 will be repaired and the stacked railroad ties surrounding V-2 will be removed during the upcoming report period.

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: Currently it is anticipated that during the upcoming reporting period (i.e., between March 1, 2016 and May 31, 2016), NAPL and groundwater monitoring will continue in accordance with the schedule presented in the SMP, as modified by the schedule presented in the March 2014 CAP. It is anticipated that NAPL will continue to be removed from RW-1 using the Spill Buster™ system and NAPL will be removed from other wells using a Spill Buster™ (or similar) if the following thicknesses are measured.

- 2-inch diameter wells: 0.8 ft. or more
- 4-inch diameter wells: 0.2 ft. or more
- 6-inch diameter wells: 0.1 ft. or more

Note: NRDs will not be used during the upcoming report period for NAPL recovery. The two 55-gallon drums currently located in the OU-II area, dedicated for recovered NAPL NRDs will be sampled and tested during the upcoming period to assess disposal requirements.

If full drums are generated during upcoming quarter samples of NAPL will be collected and tested, as outlined in the SMP. The full NAPL drums will subsequently be transported off the Site and disposed of in accordance with applicable regulations.

During the upcoming period, procedures to enhance the recovery of NAPL in wells AI2-3, FA4-11, and/or FA4-14 will be evaluated. Pending the results of this evaluation, modifications to NAPL removal in these locations (e.g., installation of a Spill Buster™ product-only removal system, or similar) may be initiated.

MNR is the process of negotiating an access agreement to install the off-site monitoring wells identified in the CAP. As of the date of this report, an access agreement has not been finalized. However, it is anticipated that this agreement will be finalized during the upcoming reporting period. Installation of the off-site monitoring wells will likely commence in the Spring of 2016.

In conjunction with the installation of the off-site monitoring wells, a monitoring well will be installed at the northeastern terminus of the Sheeting Wall in Area L1 to assess whether NAPL is present in this area and to serve as a long-term NAPL monitoring point to confirm that NAPL from Area L1 is not migrating off-site in this area. [Note: A monitoring well that was installed during the remedial evaluation phase of the OU-I area (i.e., WB-9) was identified at the southwestern terminus of the sheet pile wall. This well was redeveloped on April 23, 2015 and found to be functioning (i.e., the initial depth to water was measured at 6.37 ft. below ground surface, and following removal of 10 gallons of water the depth to water was measured at 6.35 ft. below ground surface). As such, this well will serve as a long-term monitoring point to confirm that NAPL from Area L1 is not migrating off-site in this location.]

During the upcoming report period, work will continue to address the action items identified during the September 10, 2015 inspection (i.e., crack repair, replacement of the protective casing on well AI1-6, and the removal of the stacked railroad ties around V-2). The removal/disposal of the accumulated materials on the OU-I cover will continue to be inventoried and disposed of or relocated as necessary to facilitate the repair of cracks in the asphalt cover. In addition, the area of ponding water and settlement will be evaluated to assess if remedial actions are warranted.

An OU-I/OU-II inspection and groundwater sampling event is due in April 2016.

A SMP status report for the work completed during the upcoming period (i.e., March 1, 2016 through May 31, 2016) will be submitted in June 2016.

Tables

Table 1:	NAPL Removal Totals: December 1, 2015 through February 29, 2016
Table 2:	Historic NAPL Removal Totals: December 1, 2012 through November 30, 2016
Table 3A:	Summary of VOCs: Groundwater Sample
Table 3B:	Summary of SVOCs: Groundwater Sample
Table 3C:	Summary of PCBs: Groundwater Sample
Table 3D:	Summary of Metals: Groundwater Sample

Figures

Figure 1:	Groundwater Contour Map: February 2, 2016
Figure 2:	Summary of NAPL Removal for the Quarters September through November 2015 and December 2015 through February 2016

Attachments

Attachment A:	Well Monitoring Logs: December 1, 2015 through February 29, 2015
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TABLES

Table 1

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

NAPL Removal Totals
 Current Report Period: December 1, 2015 - February 29, 2016

OU I	
Well ID	Gallons Removed
V1	0.63
V2	0.34
V3	1.75
V4	11.25
Total	13.97

OU II							
NAPL AREA L1		NAPL AREA L2		NAPL AREA L3		NAPL AREA L4	
Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed
AI1-1	0.03	AI2-2	1.44	AI3-4	0.09	DAY-1	0.00
AI1-4	0.04	AI2-3	20.40	AI3-6	0.00	FA4-8	13.96
AI1-8	0.06	VE2-1	0.00	VE3-1	0.90	FA4-9	0.24
AI1-11	0.12	Total	21.84	Total	0.99	FA4-10	ND
AI1-12	0.13					FA4-11	12.25
AI1-15	0.10					FA4-12	1.25
AI1-16	0.00					FA4-13	0.17
VE1-1	ND					FA4-14	16.95
VE1-2	0.01					FA4-15	4.325
VE1-3	0.03					FA4-16	2.62
VE1-4	0.00					FA4-17	0.00
Total	0.52					FA4-18	4.31
						FA4-19	ND
						FA4-20	0.00
						FA4-21	0.16
						FA4-23	0.21
						PGW-2	0.50
						RW-1	0.00
						VE4-1	0.00
						VE4-5	9.65
						VE4-6	0.00
						VE4-7	0.08
						VE4-8	0.87
						VE4-9	0.55
						VE4-10	0.51
						VE4-11	0.00
						VE4-12	0.00
						VE4-13	0.00
						Total	68.605

Table 2

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

Historic NAPL Removal Totals
 December 1, 2012 - November 30, 2015

OU I	
Well ID	Gallons Removed
V1	0.55
V2	3.67
V3	12.83
V4	18.24
Total	35.29

OU II					
NAPL AREA L1		NAPL AREA L2		NAPL AREA L4	
Well ID	Gallons Removed	Well ID	Gallons Removed	Well ID	Gallons Removed
AI1-1	0	AI2-2	0.19	DAY-1	0
AI1-4	0	AI2-3	110.25	FA4-8	47.01
AI1-8	0	VE2-1	0	FA4-9	0.36
AI1-11	0.11	Total	110.44	FA4-10	0.13
AI1-12	0.05			FA4-11	46.5
AI1-15	0.28			FA4-12	1.65
AI1-16	0			FA4-13	1.14
VE1-1	4.34			FA4-14	50.33
VE1-2	0			FA4-15	18.13
VE1-3	0.07			FA4-16	11.85
VE1-4	0			FA4-17	0
Total	4.85			FA4-18	13.39
				FA4-19	0
				FA4-20	0
				FA4-21	0
				FA4-23	0.7
				PGW-2	5.13
				RW-1	1063.3
				VE4-1	0
				VE4-5	97.49
				VE4-6	1.26
				VE4-7	0
				VE4-8	0.04
				VE4-9	5.22
				VE4-10	0.04
				VE4-11	0
				VE4-12	0
				VE4-13	0
				Total	1363.67

NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Volatile Organic Compounds
Groundwater Samples
Table 3A

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																												
		VE 1-2						VE 1-4						VE 2-1						VE 3-1										
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15					
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	5.1	5.1	3.60
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]
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 [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J
sec-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J
Xylenes, Total	5	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	2.1 J	1.35 J

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																				
		VE 4-11								DAY 1					Field Blank					Trip Blank		
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	9/12/12	4/2/13	9/25/13
1,2,4-Trimethylbenzene	5	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
Benzene	1	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.53 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
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 [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [10]	ND [10]	ND [10]	
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
M p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [10]	ND [10]	ND [10]	
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
sec-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	
Xylenes, Total	5	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	ND [15]	ND [15]	0.48 J	ND [15]	ND [15]	ND [15]	ND [15]	ND [3.0]	ND [15]	ND [15]	ND [15]	

Notes:

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

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

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

NS = No Standard

J = Estimated concentration.

B = Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

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

NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Semi-Volatile Organic Compounds
Groundwater Samples
Table 3B

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																								
		VE 1-2						VE 1-4						VE 2-1						VE 3-1						
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.238	ND [10]	
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]	
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.275	ND [10]	
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 [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.262	ND [10]	
Chrysene	0.002	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.250	ND [10]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	2.85 J	12.3	6.75	3.200 J
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 [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.112	ND [10]	
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																	
		VE 4-11							DAY 1					FB					
		3/27/12	9/11/12	11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15
2-Methylnaphthalene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [6.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(a)anthracene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(a)pyrene	ND	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(b)fluoranthene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Benzo(k)fluoranthene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Chrysene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Indeno(1,2,3-cd)pyrene	0.002	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.141	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]

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

NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Polychlorinated Biphenyls (PCBs)
Groundwater Samples
Table 3C

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																							
		VE 1-2						VE 1-4						VE 2-1						VE 3-1					
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.51]	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.505]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.5]

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																	
		VE 4-11							Field Blank										
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.5]	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.51]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.505]

Notes:

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

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

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

NS = No Standard

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

**NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II**

**Summary of Metals
Groundwater Samples
Table 3D**

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																							
		VE 1-2						VE 1-4						VE 2-1						VE 3-1					
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	ND [5]	6.72	5.56	4.70	9.00	4.55	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77

Compound	Groundwater Standard or Guidance Value ⁽¹⁾	Test Location and Sample Date																	
		VE 4-11							DAY 1						Field Blank				
		3/27/12	9/11/12	11/2012 DU	4/2/13	9/24/13	5/27/14	5/19/15	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	ND [5]	ND [5]	ND [5]	17.3	80
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	ND [3]	ND [3]	ND [3]	ND [3]	1.6

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.

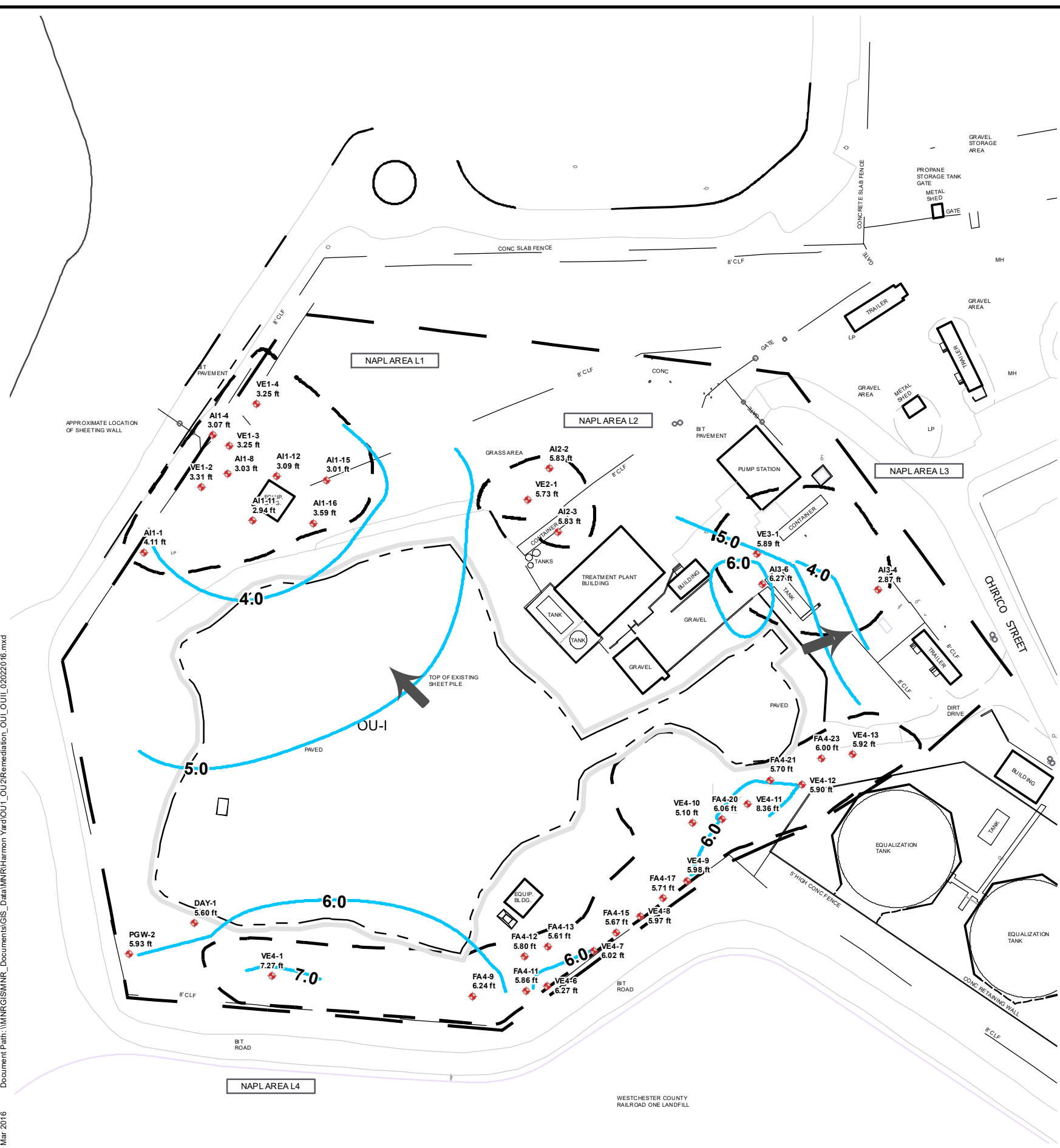
ND (Method Detection Limit) [Reporting Limit] = Not Detected at a concentration greater than the reporting limit shown in brackets

NS = No Standard

J = Estimated Concentration

FIGURES

Last Date Saved: 16 Mar 2016 Document Path: \\MNR\GIS\MNR_Documents\GIS_Data\MNR\Harmon_Yard\OU1_OU2\Remediation_OU1_OU2\OU1_D2022016.mxd



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 (6.27 ft) Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- 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)
- Extent of OU-I final cover system
- Extent of OU-I final cover system



PROJECT MANAGER	RLK	DATE	03-2016
DRAWN BY	CPS/CCD	DATE DRAWN	03-2016
SCALE	As Noted	DATE ISSUED	03-16-2016

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

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

Drawing Title
SITE MANAGEMENT PLAN

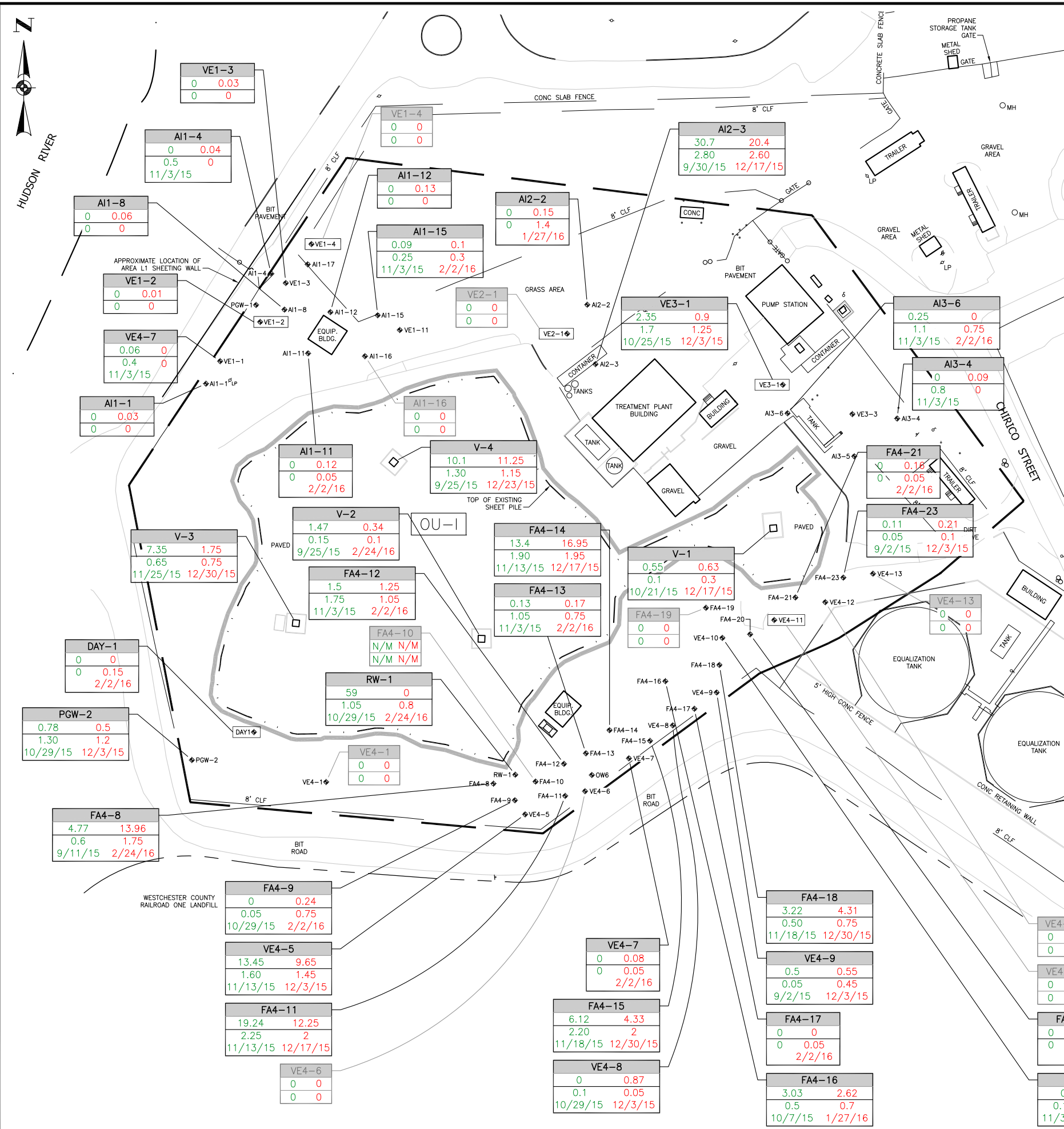
Groundwater Conour Map: February 02, 2016

Project No.
 15-5063M (46)

FIGURE 1

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

Time Plotted: Friday, March 18, 2016 9:30:50 AM
 File Name: P:\Drawings\Metro\Harmon\Remediation-46\NAPL Wells Qtr Dec 2015-Feb 2016.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 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, or by reference to site features (e.g., DAY-1, RW-1, etc...)
3. NAPL is removed from RW-1 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
- FA4-8 Long-Term Monitoring Well Identification
- NAPL Removed (Gallons) During Quarter
- Maximum NAPL Thickness (Feet) Measured During Quarter With Date Of Measurement
- Measurements Made During The Report Period September 1, 2015 Through November 30, 2015 Shown In Green (Left)
- Measurements Made During The Report Period December 1, 2015 Through February 29, 2016 Shown In Red (Right)
- N/M Well Not Measured

SITE PLAN
 1" = 80'



PROJECT MANAGER	DATE
CAH	3-2016
DRAWN BY	DATE DRAWN
RJM/CPS	3-18-2016
SCALE	DATE ISSUED
As Noted	3-18-2016

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 NAPL Removal For The Quarters
 September - November 2015 & December 2015 - February 2016**

PROJECT NO.
 15-3356M (46)

FIGURE 2

ATTACHMENT A

**DEPTH TO GROUNDWATER AND NAPL MEASUREMENTS
AND
NAPL REMOVAL RECORDS
FOR
MEASUREMENTS MADE DURING THE REPORTING PERIOD
DECEMBER 1, 2015 THROUGH FEBRUARY 29, 2016**

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	13.95	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.0	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/10/2015	17.8	18.6	0.8	0.5	
2/2/2016	0	14.3	0	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	13.9	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.35	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P6 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
------	--------------------	---------------------	---------------------	----------------------	----------

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.45	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.1	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.1	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.0	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	0	17.3	0	0	LEFT NRD IN
12/10/2015	0	17.2	0	0.63	REMOVED NRD, NOT REPLACED
12/17/2015	16.9	17.2	0.3	0	
12/23/2015	16.9	16.95	0.05	0	
12/30/2015	16.9	16.95	0.05	0	
1/6/2016	0	16.7	0	0	
1/15/2016	0	16.6	0	0	
1/25/2016	0	16.55	0	0	
1/27/2016	0	16.55	0	0	
2/3/2016	0	16.55	0	0	
2/11/2016	0	16.5	0	0	
2/19/2016	0	16.5	0	0	
2/24/2016	0	16.45	0	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	0	17.75	0	0	LEFT NRD IN
12/10/2015	0	17.6	0	0.34	REMOVED NRD, NOT REPLACED
12/17/2015	17.6	17.65	0.05	0	
12/23/2015	17.6	17.7	0.1	0	
12/30/2015	17.65	17.75	0.1	0	
1/6/2016	17.55	17.6	0.05	0	
1/15/2016	17.5	17.55	0.05	0	
1/22/2016	17.5	17.6	0.1	0	
1/27/2016	17.55	17.6	0.05	0	
2/3/2016	17.5	17.6	0.1	0	
2/11/2016	17.5	17.6	0.1	0	
2/19/2016	17.55	17.6	0.05	0	
2/24/2016	17.5	17.6	0.1	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	17.75	18.1	0.35	0.5	
12/17/2015	17.8	18.5	0.7	0.75	
12/23/2015	17.8	18.3	0.5	0	
12/30/2015	17.8	18.55	0.75	0.5	
1/6/2016	17.45	17.5	0.05	0	
1/15/2016	17.3	17.35	0.05	0	
1/22/2016	17.4	17.45	0.05	0	
1/27/2016	17.4	17.45	0.05	0	
2/3/2016	17.4	17.45	0.05	0	
2/11/2016	17.25	17.3	0.05	0	
2/19/2016	17.35	17.4	0.05	0	
2/24/2016	17.3	17.35	0.05	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	17	18	1	1	
12/10/2015	17.05	18.05	1	1.25	
12/17/2015	17.05	17.95	0.9	1.25	
12/23/2015	17.05	18.2	1.15	0.9	
12/30/2015	17.05	18	0.95	0.85	
1/6/2016	16.6	17.3	0.7	1	
1/15/2016	16.45	17.15	0.7	0.65	
1/22/2016	16.55	17.4	0.85	0.5	
1/27/2016	16.55	17.3	0.75	0.65	
2/3/2016	16.6	17.45	0.85	0.85	
2/11/2016	16.4	17.1	0.7	0.75	
2/19/2016	16.55	17.35	0.8	0.75	
2/24/2016	16.4	17.15	0.75	0.85	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	11.5	0.00	0.03	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	10.95	0.00	0.04	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.05	0.00	0.06	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	18.05	18.1	0.05	0.12	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	17.65	0.00	0.13	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	19.3	19.6	0.30	0.1	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.3	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
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Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	10.1	0.00	0.1	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	9.25	0.00	0.03	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	10.8	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
1/27/2016	15.4	16.8	1.40	1.5	
2/2/2016	15.35	15.4	0.05	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	15.7	18.25	2.55	2.5	
12/10/2015	15.7	18.2	2.50	2.75	
12/17/2015	15.8	18.4	2.60	2.5	
12/23/2015	15.7	18.05	2.35	2.35	
12/30/2015	15.75	18.2	2.45	2.5	
1/6/2016	15.4	16.5	1.10	0.85	
1/15/2016	15.35	16.3	0.95	0.85	
1/22/2016	15.35	16.45	1.10	0	
2/2/2016	15.45	16.9	1.45	1.25	
2/3/2016	15.45	16.9	1.45	1.25	
2/11/2016	15.4	16.6	1.20	1.35	
2/19/2016	15.3	16.4	1.10	1.25	
2/24/2016	15.3	16.4	1.10	1	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	11.6	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.2	0.00	0.09	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	16.9	17.65	0.75	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	11.9	13.15	1.25	0.9	
1/6/2016	11.55	11.6	0.05	0	
2/2/2016	11.65	11.7	0.05	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	16.05	16.2	0.15	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	17.75	17.85	0.10	0.58	REPLACED NRD
12/10/2015	17.25	17.5	0.25	0.53	REMOVED NRD, NOT REPLACED
12/17/2015	17.2	18.1	0.90	0.65	
12/23/2015	17.0	17.85	0.85	0.65	
12/30/2015	17.15	17.9	0.75	0.55	
1/6/2016	16.55	17.35	0.80	1	
1/15/2016	16.55	17.5	0.95	1	
1/22/2016	16.5	17.65	1.15	1.25	
1/27/2016	16.65	18.35	1.70	1.65	
2/3/2016	16.6	18.1	1.50	1.5	
2/11/2016	16.5	18.0	1.50	1.35	
2/19/2016	16.35	18.1	1.75	1.75	
2/24/2016	16.35	18.1	1.75	1.5	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	10.1	10.15	0.05	0.12	REPLACED NRD
1/6/2016	7.85	7.9	0.05	0	
2/2/2016	8	8.75	0.75	0.12	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
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Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	11.95	13.9	1.95	1.6	
12/10/2015	11.9	13.9	2.00	1.55	
12/17/2015	12	14.0	2.00	1.65	
12/23/2015	11.85	13.5	1.65	1.35	
12/30/2015	11.9	13.75	1.85	1.55	
1/6/2016	11.4	12.6	1.20	1	
1/15/2016	11.35	12.25	0.90	0.55	
1/22/2016	11.45	11.75	0.30	0	
1/27/2016	11.6	12.25	0.65	0.5	
2/2/2016	11.6	12.4	0.80	0.75	
2/3/2016	11.6	12.4	0.80	0.75	
2/11/2016	11.4	12.15	0.75	0.5	
2/19/2016	11.35	11.95	0.60	0.5	
2/24/2016	11.4	11.55	0.15	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	14.5	15.55	1.05	1.25	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-13 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	8.65	9.4	0.75	0.17	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	13.8	15.7	1.90	2	
12/10/2015	13.8	15.7	1.90	2	
12/17/2015	13.85	15.8	1.95	2	
12/23/2015	13.75	15.2	1.45	1.35	
12/30/2015	13.85	15.7	1.85	2	
1/6/2016	13.3	14.15	0.85	1	
1/15/2016	13.2	14.1	0.90	1	
1/22/2016	13.25	14.1	0.85	0.75	
1/27/2016	13.4	14.4	1.00	1.25	
2/3/2016	13.45	14.25	0.80	1.25	
2/11/2016	13.2	14.05	0.85	0.85	
2/19/2016	13.2	14.1	0.90	0.75	
2/24/2016	13.2	14.05	0.85	0.75	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-15 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	7.95	9.7	1.75	0.5	
12/10/2015	7.95	9.7	1.75	0.35	
12/17/2015	8.0	9.9	1.90	0.75	
12/23/2015	7.9	9.2	1.30	0.5	
12/30/2015	7.95	9.95	2.00	0.5	
1/6/2016	7.45	8.1	0.65	0.25	
1/15/2016	7.35	8.1	0.75	0.15	
1/22/2016	7.4	8.2	0.80	0.125	
1/27/2016	7.55	8.35	0.80	0.25	
2/2/2016	7.6	8.1	0.50	0.15	
2/3/2016	7.6	8.1	0.50	0.15	
2/11/2016	7.3	8.2	0.90	0.35	
2/19/2016	7.2	8.25	1.05	0.3	
2/24/2016	7.2	8.1	0.90	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	15.35	15.4	0.05	0.57	REPLACED NRD
12/10/2015	15.15	15.3	0.15	0.55	REMOVED NRD, NOT REPLACED
12/17/2015	15.1	15.45	0.35	0	
12/23/2015	14.9	15.6	0.70	0.35	
12/30/2015	15.1	15.35	0.25	0	
1/6/2016	14.5	14.55	0.05	0	
1/15/2016	0	14.35	0.00	0	
1/22/2016	14.4	14.55	0.15	0	
1/27/2016	14.5	15.2	0.70	0.65	
2/3/2016	14.55	15.2	0.65	0.5	
2/11/2016	14.35	14.5	0.15	0	
2/19/2016	14.35	14.55	0.20	0	
2/24/2016	14.3	14.6	0.30	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-17 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	8	8.05	0.05	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	13.8	13.95	0.15	0.54	REPLACED NRD
12/10/2015	13.65	14.0	0.35	0.47	REMOVED NRD, NOT REPLACED
12/17/2015	13.5	14.25	0.75	0.65	
12/23/2015	13.4	14.1	0.70	0.5	
12/30/2015	13.45	14.2	0.75	0.55	
1/6/2016	12.9	13.35	0.45	0	
1/15/2016	12.8	13.2	0.40	0	
1/22/2016	12.85	13.4	0.55	0.5	
1/27/2016	13	13.55	0.55	0.6	
2/3/2016	13	13.5	0.50	0.5	
2/11/2016	12.8	13.2	0.40	0	
2/19/2016	12.8	13.2	0.40	0	
2/24/2016	12.75	13.1	0.35	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-19 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
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Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	12	12.1	0.10	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	0	14.75	0.00	0	LEFT NRD IN
1/6/2016	14.4	14.45	0.05	0.16	REMOVED NRD, NOT REPLACED
2/2/2016	14	14.05	0.05	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	13.85	13.95	0.10	0.09	REPLACED NRD
1/6/2016	0	13.3	0.00	0.12	REMOVED NRD, NOT REPLACED
2/2/2016	0	13.25	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	7.3	8.5	1.20	0.25	
1/6/2016	5.95	6.3	0.35	0	
2/2/2016	6.3	6.8	0.50	0.25	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	15.4	15.5	0.10	0	
12/10/2015	15.3	15.75	0.45	0	
12/17/2015	15.4	15.8	0.40	0	
12/23/2015	15.2	15.5	0.30	0	
12/30/2015	15.35	15.5	0.15	0	
1/6/2016	14.8	14.85	0.05	0	OIL DRUM 2/3 FULL
1/15/2016	14.75	14.8	0.05	0	OIL DRUM 2/3 FULL
1/22/2016	14.8	14.85	0.05	0	OIL DRUM 2/3 FULL
1/27/2016	14.9	15.2	0.30	0	OIL DRUM 2/3 FULL
2/3/2016	14.9	15.3	0.40	0	DRUM IS 2/3 FULL
2/11/2016	14.7	15.1	0.40	0	
2/19/2016	14.6	15.2	0.60	0	
2/24/2016	14.65	15.45	0.80	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	8.05	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	10.2	11.65	1.45	1.25	
12/10/2015	9.6	11	1.40	1.25	
12/17/2015	10.25	11.65	1.40	1	
12/23/2015	10.15	11.25	1.10	0.85	
12/30/2015	10.35	11.75	1.40	1.25	
1/6/2016	9.6	10.25	0.65	0.65	
1/15/2016	9.6	10.25	0.65	0.65	
1/22/2016	9.6	10.15	0.55	0.5	
1/27/2016	9.8	10.25	0.45	0.5	
2/3/2016	9.8	10.2	0.40	0	
2/11/2016	9.6	10.4	0.80	0.75	
2/19/2016	9.5	10.1	0.60	0.5	
2/24/2016	9.6	10.1	0.50	0.5	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	8.15	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	8.55	8.6	0.05	0.01	REPLACED NRD
1/6/2016	0	7.9	0.00	0.07	REMOVED NRD, NOT REPLACED
2/2/2016	7.9	7.95	0.05	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	9.7	9.75	0.05	0.41	REPLACED NRD
1/6/2016	0	9.0	0.00	0.46	REMOVED NRD, NOT REPLACED
2/2/2016	0	8.3	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
12/3/2015	9.9	10.35	0.45	0.55	REMOVED NRD, NOT REPLACED
1/6/2016	8.45	8.8	0.35	0	
2/2/2016	8.5	8.85	0.35	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-11 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	12.7	0.00	0	

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	13.2	13.25	0.05	0.51	REMOVED NRD, NOT REPLACED

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	14.0	0.00	0	

Metro-North Railroad NAPL Recovery Report

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

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)	Comments
2/2/2016	0	13.0	0.00	0	