SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: March 1, 2015 THROUGH May 31, 2015
HARMON RAILROAD YARD
OU-I AND OU-II
WESTCHESTER COUNTY, NEW YORK
SITE NO. 3-60-010

SUMMARY OF WORK COMPLETED DURING THE REPORT PERIOD: This report summarizes the remedial actions and monitoring completed between March 1, 2015 and May 31, 2015 (i.e., the 13th Quarter of operation). 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 (the SMP).

During this report period, an inspection of OU-I and OU-II, including the NAPL Area 1 Sheeting Wall, was completed on April 23, 2015. The results of this inspection are presented in Attachment A. Generally, this inspection revealed that the remedial systems and Engineering Controls (ECs) were functioning as designed. However, the need for several corrective actions was identified during the inspection, and these actions are summarized below.

Six NAPL monitoring and recovery wells located in the OUII L4 monitoring area and one NAPL monitoring and recovery well located in the OUII L2 monitoring area were over drilled and replaced as outlined in the Corrective Action Plan (CAP) Status Report, dated November 2014 (revised January 2015). The replacement wells were developed subsequent to the completion of drilling and well installation activities. Additional information regarding the replacement well installation, well development activities and procedures to assess the NAPL recovery capabilities of these wells are provided below.

Finally, the weekly and quarterly NAPL and groundwater monitoring was conducted as outlined in the SMP, with additional monthly monitoring in select wells, as outlined in previous progress reports and/or the CAP. NAPL was removed from select wells during these periodic monitoring events. 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, quarterly monitoring was conducted on May 15, 2015. This monitoring included the measurement of static water levels and the evaluation of NAPL in functioning monitoring wells. The results of this monitoring are summarized on the tables presented in Attachment B. A groundwater contour map developed using static water levels measured on April 20, 2015 is included as Figure 1.

WELL REPLACEMENT: On April 24, 2015, existing two-inch diameter wells AI2-3, FA 4-8, FA 4-11, FA 4-12, FA 4-14, FA 4-16, FA 4-18 were over drilled and replaced with four-inch diameter wells. [Note: Since the replacement well were installed in the same locations as there predecessors, the well designations were not changed.] The drilling work was completed by Miller Environmental Group, Inc. and observed and documented by Yu and Associates (Yu).

Information regarding the construction of the replacement monitoring wells is provided on the well construction logs included in Attachment C.

On April 24, 2015, replacement wells AI2-3, FA 4-8, FA 4-11, FA 4-12, FA 4-14, FA 4-16, FA 4-18 were developed by a Yu representative, to remove solids that accumulated in the wells during drilling activities. Due to a high volume of solids, replacement wells FA 4-12 and FA 4-14 were re-developed on April 27, 2015. Details pertaining to the well development activities are summarized on a well development log (refer to Attachment C).

Soil cuttings generated during drilling activities and water/NAPL accumulated during well development activities were containerized in twelve 55-gallon drums. Samples from each drum were collected on April 29, 2014 and submitted to York Analytical Services, Inc. (York) under chain-of-custody control, and tested for polychlorinated biphenyls (PCBs) using USEPA Method 8082. A copy of the report prepared by York is included in Attachment D.

NAPL REMOVAL RECORDS: The depth to groundwater, NAPL thickness measurements and NAPL removal records completed/compiled during this report period are presented on the tables included in Attachment B. A summary of the total amount of NAPL removed from each well during the current report period is attached as Table 1, and a summary of the total amount of NAPL historically removed from each well between December 1, 2012 and February 28, 2015 is attached to this report as Table 2. A spider diagram presenting the maximum NAPL thicknesses and the amount of NAPL removed from the wells monitored is included as Figure 2. This figure shows measurements obtained during the current and preceding report period.

The OU-II NAPL accumulation area was inspected on May 28, 2015. During this inspection, no evidence of leakage/spillage was observed in proximity of the NAPL and NRD collection drums. This inspection also revealed that, three full 55-gallon drums of NAPL that was removed from recovery well RW-1 using a Spill Buster™ between December 18, 2014 and May 28, 2015, was present in in the NAPL accumulation area. In addition, spent NRDs and NAPL removed from other wells within OU-II between December 18, 2014 and February 27, 2015 were stored in three 55-gallon drums, and these drums contained a total of approximately 130 gallons NAPL/spent NRDs.

NAPL/SOIL DISPOSAL RECORDS: Samples from two full accumulated NAPL drums were collected on April 1, 2015 and submitted to York under chain-of-custody control, and tested for PCBs using USEPA Method 8082. A copy of the report prepared by York is included in Attachment D. These drums were subsequently moved from the OU-II NAPL accumulation area to the Harmon Yard waste accumulation building for disposal.

On June 1, 2015, the two full accumulated NAPL drums, along with the 12 drums containing soil cuttings and/or development water/NAPL (see above) were transported off-site by Freehold Cartage, Inc. and disposed at the Waste Management facility in Model City, New York. The manifest and bill of lading for the June 1, 2015 shipment is included in Attachment E. A manifest and bill of lading for six drums of NAPL recovered during previous report periods is also included in Attachment E. The six drums were shipped off-site on April 10, 2015 by Freehold Cartage, Inc. for disposal at the Waste Management facility in Model City, New York.

GROUNDWATER SAMPLING AND TESTING: Groundwater samples were collected from the following monitoring wells on May 19 and 20, 2015 as part of the long-term monitoring program identified in the SMP: VE 1-2, VE 1-4, VE 2-1, VE 3-1, VE 4-11, and DAY-1. A spider diagram showing the locations of these monitoring wells, and presenting a summary of the test results for the groundwater samples collected is included as Figure 3. The parameters detected during the analytical laboratory testing of the groundwater samples collected May 19-20, 2015 are also presented on Table 3 (volatile organic compounds), Table 4 (semi-volatile organic compounds), Table 5 (polychlorinated biphenyls), and Table 6 (metals). The groundwater test results for the samples collected during the previous sampling events (conducted on September 24-25, 2013, and May 27-28, 2014) are also included on the above tables for comparison purposes, and on Figure 3. A copy of the analytical laboratory report prepared by Chemtech Analytical Laboratory in Mountainside, NJ (Chemtech), and executed chain-of-custody documentation for the samples collected during the May 19-20, 2015 monitoring event are included in Attachment F. [Note: The analytical laboratory report was submitted in EQUIS EDD format to the NYSDEC via e-mail on June 18, 2015. The NYSDEC has not confirmed the receipt of the data package as of the writing of this status report.]

PROBLEMS ENCOUNTERED/RESOLUTION: The following items were identified for corrective actions during the April 23, 2015 inspection of the OU-I and OU-II areas (refer to Attachment A):

- Evidence of settlement, ponding of surface water, and minor cracking was observed over portions of the OU-I asphalt pavement; and
- 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 around the OU-II areas.

The repairs and maintenance required to resolve the deficiencies identified in the OU-I and OU-II areas will be completed during the implementation of the CAP, which is anticipated to continue during the up-coming report period. The removal process for the debris/materials in the OUII areas is ongoing, and as of the writing of this report, six dumpsters of debris/materials have been removed from the OU I and OUII areas. It is anticipated that the cracks noted in the OU-I asphalt pavement will be sealed when debris/material has been removed to the extent possible.

The following corrective actions are tentatively scheduled for completion during the upcoming report period (i.e., June-August 2015):

- Curbox installation to repair NAPL monitoring and recovery well AI-16;
- The removal of railroad ties from around monitoring and recovery well V-2 and subsequent placement of asphalt pavement around the well; and
- Pavement (with asphalt) of the OU-I settlement area.

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 June 1, 2015 and August 31, 2015), that 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 a combination of pumping and NRDs will be used in other locations.

It is anticipated that during upcoming quarter samples of NAPL will be collected and tested from full NAPL drums, as outlined in the SMP. The full NAPL drums will subsequently be transported off the Site and disposed of in accordance with applicable regulations.

Implementation of the action items identified in March 2014 CAP will continue during the upcoming report period. This work will include NAPL evaluation in replacement wells AI2-3, FA4-8, FA4-11, FA4-12, FA4-14, FA4-16, and FA4-18 in accordance with the following procedures.

1. If present, NRDs will be removed from each well, weighed and the measurement should be recorded. The NRDs will not be replaced during the subsequent evaluation process.

2. If any NAPL remains following the removal of the NRD, it will be removed to the extent possible using a Spill Buddy™, bailers and/or adsorbent materials. The amount of free product removed from each well will be recorded to the nearest 0.1 gallons.

3. Within one week of the completion of Step 2, each of the above listed wells will be monitored to determine the depth to water and depth to free product (if present) to the nearest 0.01 ft. The date/time of measurements, weather conditions, and the depth to water and free product will be recorded for each well. NAPL should not be removed from the well during this, or subsequent, monitoring events. The NAPL evaluation monitoring events will continue on a weekly basis until notified to proceed to Step 4 (i.e., anticipated to be 6 to 8 weeks following the start of the evaluation process).

4. During this step, the accumulated NAPL will be removed from the monitoring wells using a Spill Buddy™, bailers and/or adsorbent material. Following removal, the NAPL recovery rate will be evaluated by measuring the depth to free product and depth to water at regular intervals. The initial measurements will be made 30 minutes and 1 hour following removal. Subsequent measurements will be made at 2 hours, 4 hours and 8 hours following removal.

Depending on the results of the above evaluation, procedures to enhance the recovery of NAPL will be evaluated and implemented in select locations (e.g., installation of a Spill Buster™ product-only removal system, or similar).

It is also anticipated that 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.]

MNR has initiated discussions with Westchester County to obtain 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 established. The off-site well identified in the CAP will be installed when the access agreement is finalized.

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. Currently, it is anticipated that the crack repairs will be started in July 2015.

The next Periodic Review Report (PRR), which will document work completed under the SMP between January 1, 2013 and January 1, 2016, will be completed in or around January 2016.

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.

N

LEGEND:

- VE 4-5 (3.82 ft) — Former Vapor Extraxtion (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made May 20, 2015
- 3 — 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

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	06-2015
DATE DRAWN	06-2015
DATE ISSUED	06-16-2015

day
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
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Project Title
METRO-NORTH RAIL ROAD
HARMON YARD OPERABLE UNITS OU-I AND OU-II
CROTON-ON-HUDSON, NEW YORK

SITE MANAGEMENT PLAN

Drawing Title
Groundwater Conour Map: May 20, 2015

Project No.
10-3231M (46)

FIGURE 1

Last Date Saved: 16 Jun 2015
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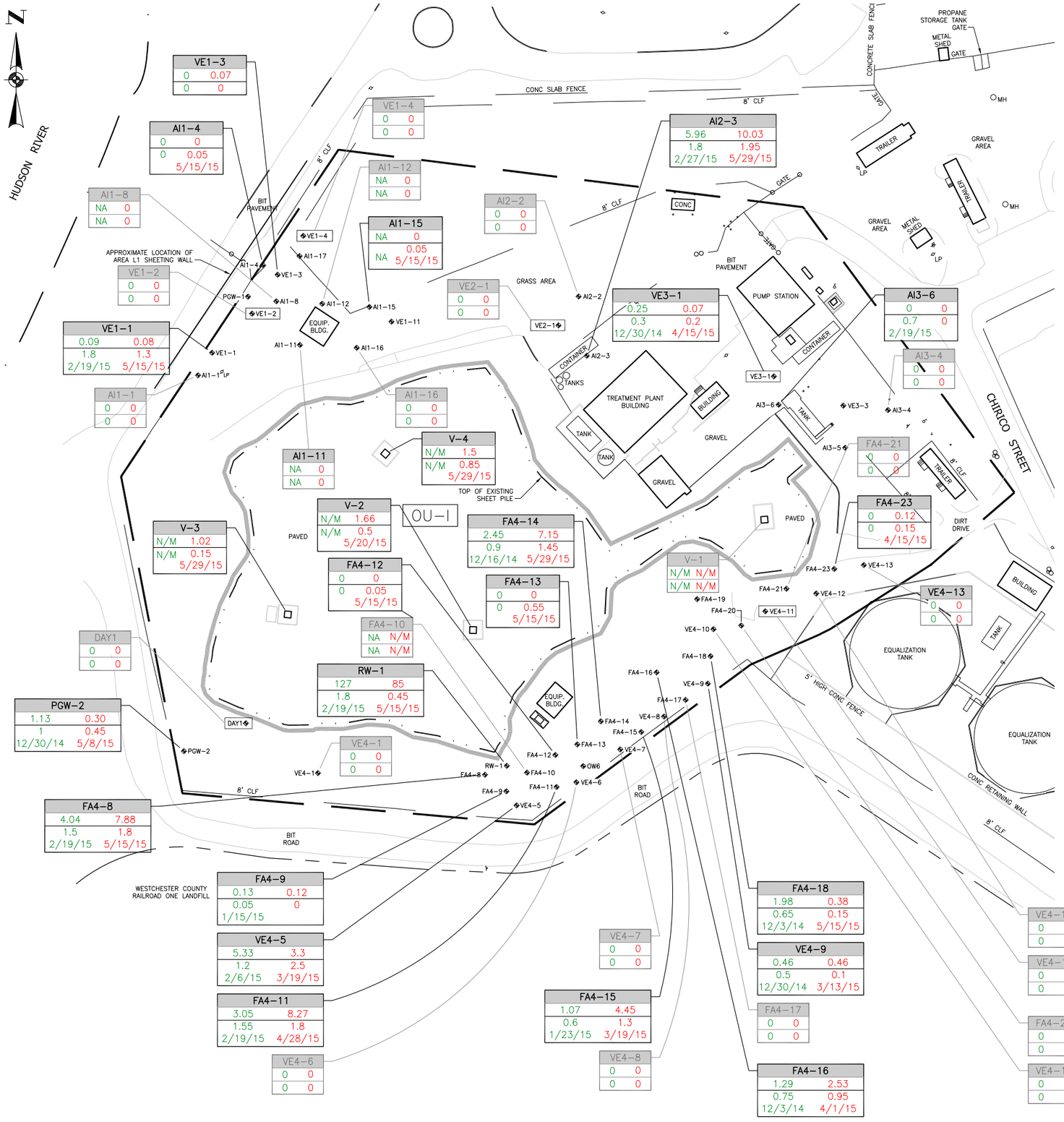

NOTES:

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. 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 4.04 7.88 1.5 1.8 2/19/15 5/15/15	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 December 1, 2014 Through February 28, 2015 Shown In Green (Left)
	Measurements Made During The Report Period March 1, 2015 Through May 31, 2015 Shown In Red (Right)
NA	Well Not Assessed Due To Frozen Conditions
N/M	Well Not Measured

SITE PLAN
1" = 80'

0' 80' 160' 240'

PROJECT MANAGER	CAH
DRAWN BY	RJM/CPS
SCALE	As Noted
DATE	6-2015
DATE DRAWN	6-10-2015
DATE ISSUED	6-11-2015

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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
December 2014 - February 2015 and March - May 2015

PROJECT NO.
15-3356M (46)

FIGURE 2

Ref1:
Ref2:
Ref3:
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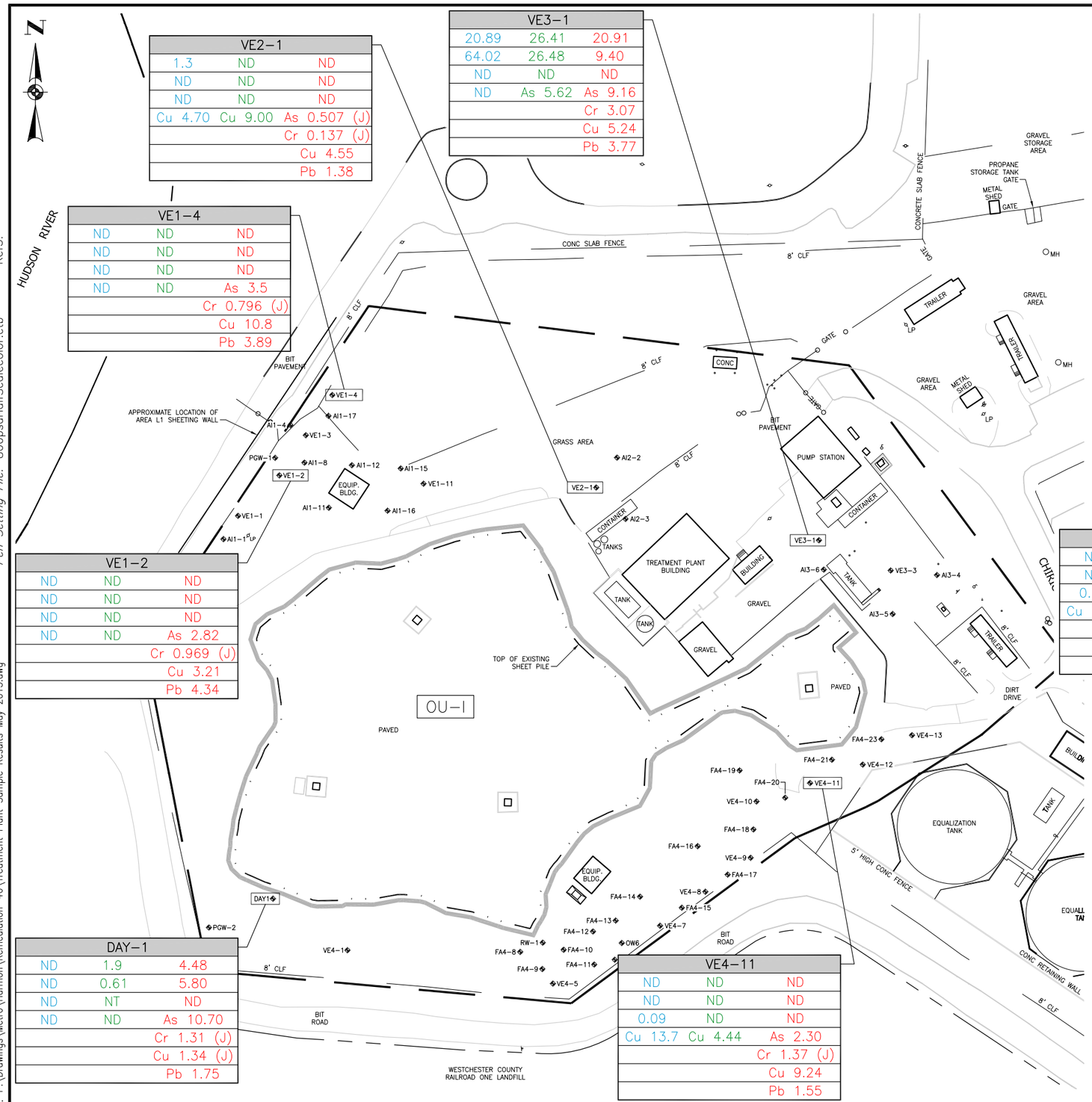

SITE PLAN
1" = 80'

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 / 0.09 ND ND / Cu 13.7 Cu 4.44 As 2.30 / Cr 1.37 (J) / Cu 9.24 / Pb 1.55)	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
ND	Constituents Not Detected
NT	Not Tested

Long-Term Monitoring Results For Samples Collected On September 14, 2013 And September 25, 2013 Shown In Blue

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

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

NOTES:

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

0' 80' 160' 240'

PROJECT MANAGER	CAH
DRAWN BY	RJM/CPS
SCALE	As Noted
DATE	5-2015
DATE DRAWN	6-10-2015
DATE ISSUED	6-11-2015

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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 Long-Term Monitoring Results For Samples Collected Sept 24 & 25, 2013, May 27 & 28, 2014 and May 19 & 20, 2015

PROJECT NO.
15-3356M (46)

FIGURE 3

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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: March 1, 2015 - May 31, 2015

OU I	
Well ID	Gallons Removed
V1	0
V2	1.66
V3	1.02
V4	1.5
Total	**4.18**

OU II

NAPL AREA L1	
Well ID	Gallons Removed
AI1-4	0
AI1-8	0
AI1-1	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
VE1-1	0.08
VE1-2	0
VE1-3	0.07
VE1-4	0
Total	**0.15**

NAPL AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3	10.03
VE2-1	0
Total	**10.03**

NAPL AREA L3	
AI3-4	0
AI3-6	0
VE3-1	0.07
Total	**0.07**

NAPL AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	7.88
FA4-9	0.12
FA4-10	0
FA4-11	8.27
FA4-12	0
FA4-13	0
FA4-14	7.15
FA4-15	4.45
FA4-16	2.53
FA4-17	0
FA4-18	0.38
FA4-19	0
FA4-20	0
FA4-21	0
FA4-23	0.12
PGW-2	0.3
RW-1	85
VE4-1	0
VE4-5	3.3
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0.46
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	0
Total	**119.96**

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 -February 28, 2015

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

OU II	
NAPL AREA L1	
Well ID	Gallons Removed
AI1-4	0
AI1-8	0
AI1-1	0
AI1-11	0.11
AI1-12	0.05
AI1-15	0.19
AI1-16	0
VE1-1	3.1
VE1-2	0
VE1-3	0
VE1-4	0
Total	**3.45**

NAPL AREA L2	
Well ID	Gallons Removed
AI2-2	0.19
AI2-3	52.98
VE2-1	0
Total	**53.17**

NAPL AREA L3	
AI3-4	0.25
AI3-6	0.25
VE3-1	7.44
Total	**7.94**

NAPL AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8	25.5
FA4-9	0.24
FA4-10	0.13
FA4-11	9.12
FA4-12	0
FA4-13	0.88
FA4-14	16.88
FA4-15	6.23
FA4-16	4.51
FA4-17	0
FA4-18	7.07
FA4-19	0
FA4-20	0
FA4-21	0
FA4-23	0.47
PGW-2	3.69
RW-1	881.7
VE4-1	0
VE4-5	74.2
VE4-6	1.26
VE4-7	0
VE4-8	0.04
VE4-9	4.26
VE4-10	0.04
VE4-11	0
VE4-12	0
VE4-13	0
Total	**1036.22**

* - Not Recorded

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						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]	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]	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 [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]	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]	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 [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 [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 [10]	ND [1.0]	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	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]	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 [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]	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]	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]	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[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 [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 [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]**	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 [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 [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 [5.0]**	ND [1.0]	**ND [5.0]**	0.82 J	**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 [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 [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 [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 [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 [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 [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 [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 [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 [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 [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[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 [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 [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 [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 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						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]	2.85 J	ND [5.13]	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 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						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							DAY 1						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 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						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]	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 concentation greater than the reporting limit shown in brackets
NS = No Standard
J = Estimated Concentration

ATTACHMENT A

METRO-NORTH RAILROAD HARMON YARD OPERATIONAL UNIT
OU-I AND OU-II
INSPECTION RESULTS FOR APRIL 23, 2015

Metro-North Railroad Harmon Yard Operational Unit OU-I and OU-II

Inspection Form

NYSDEC Site Number 3-60-010

Note the location(s) of the inspection findings described below on the attached site sketch. Also attach copies of photographs to document conditions observed at the time of this inspection and show the location/orientation of the photographs taken on the site sketch.

OU-I Asphalt Cover

	Yes	No	Corrective Action Needed?
Are there any cracks in the asphalt cover?	x		x
Any geotextile observed?		x	
Is there any surface water ponding on the asphalt cover?	x		x
Is there any evidence of settlement?	x		
Is there any elevation difference at the grouted manhole covers?		x	
Settlement or erosion in the area of the perimeter sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

Crack sealing will be completed by June 2015. Paving of settled area summer of 2015

OU-I Contingency Air-Inlet/Vapor Extraction Well Clusters

Describe the condition of the protective covers and the well clusters. Also, provide other relevant observations, and include photographs (if warranted).

Remove and clean tie surround from V-2 and pave.

OU-II Areas Around the Asphalt Cover

Are there any erosion rivulets?		x	
Is there evidence of any washouts or soil slides?		x	
Is the vegetative cover maintained?	x		
Is there debris or other material on the slopes?	x		x
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:

Six dumpsters have been filled and removed and process is on-going for clearing of the capped area

OU-II Monitoring and Product Removal Wells

Describe condition of monitoring wells and protective casings noting wells that require repairs. If warranted include photographs of wells and note the location of the photograph and well on the site sketch.

Curb box for L1-AI-1-16 will be installed summer of 2015.

OU-I/OU-II Drainage Channels

Is there any exposed geotextile in the drainage channel?		x	
If so, is the exposed geotextile damaged?		x	
Is there significant sedimentation in the drainage channel or sump box?		x	

{The rip rap drainage channel is located adjacent to the asphalt cover so there should be minimal sedimentation, and any significant sedimentation should be investigated to determine its source and cause. Sediment in the sump box in excess of 6 inches should be removed and sampled before disposal or re-use on-site]

Specify the Recommended Corrective Actions and Other Relevant Observations:

	Yes	No	Corrective Action Needed?
OU-I/OU-II Waste Accumulation Drums and Tank			
Are the 55-gallon waste oil disposal drums full?		x	
Is the 55-gallon NRD disposal drum full?		x	
Evidence of spillage/leakage in the area of disposal vessels?		x	

Explain when the drums and AST were last sampled, and attach copies of test results (if available). Identify when the drums and AST last emptied/replaced and list disposal facilities/dates (if known). Provide additional information as warranted.

12 drums were sampled May 22 from the over drilling project
2 were sampled on May 4, 2015 (one NRD drum)

OU-I/OU-II Perimeter Fencing

Is there any damaged fencing?		x	
Is there any vegetation close to the exterior of the fence that should be removed to eliminate a means for access to the Site over the fence?		x	
Are the gate locks present and in good working condition?	x		

Specify Correction Actions Needed:

Date of Inspection: 4/23/25 Inspection Completed By: Sara Gianazza

cc: Metro-North Department of Environmental Compliance and Services

RLK4163

ATTACHMENT B

DEPTH TO GROUNDWATER AND NAPL MEASUREMENTS
AND
NAPL REMOVAL RECORDS
FOR
MEASUREMENTS MADE DURING THE REPORTING PERIOD
MARCH 1, 2015 THROUGH MAY 31, 2015

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU I)					Well ID: V2	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/20/2015	17	17.5	0.5	0	1.5	ADDED NRD
5/29/2015	17.1	17.2	0.1	0.16	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU I)				Well ID: V3		
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/20/2015	17.2	17.25	0.05	0.51	0	REPLACED NRD
5/29/2015	17.55	17.7	0.15	0.51	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU I)					Well ID: V4	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/20/2015	16.4	17.1	0.7	0	0.5	
5/29/2015	16.65	17.5	0.85	0	1	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)				Well ID: AI1-1		
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	10.55	0	0	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI1-4	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	10.6	10.65	0.05	0	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI1-8	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	13.8	0	0	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI1-11	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	17.8	0	0	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI1-12	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	17.4	0	0.12	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI1-15	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	18.9	18.95	0.05	0	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI1-16	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	14.3	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE1-1	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	9.1	10.4	1.3	0.08	0	Replaced NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE1-2	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	9.9	0	0	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE1-3	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	9	0	0.07	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE1-4	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	10.5	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI2-2	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/8/2015	0	15.05	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)				Well ID: AI2-3		
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/3/2015	16.4	18.1	1.7	0.14	0	Replaced NRD
3/13/2015	16.3	18	1.7	0.16	0	Replaced NRD
3/19/2015	0	0	0	0	0	Well Frozen-No Access
3/24/2015	15.8	16.2	0.4	0.15	0.25	Replaced NRD
4/1/2015	15.55	15.95	0.4	0.13	1.25	
4/7/2015	15.65	16	0.35	1.41	0.25	REPLACED NRD
4/15/2015	15.75	16.45	0.7	0.15	0.25	REPLACED NRD
4/22/2015	15.65	15.8	0.15	0.15	0.24	
4/28/2015	15.05	15.65	0.6	0	0.5	
5/8/2015	15.2	16.7	1.5	0	1.25	
5/15/2015	15.2	16.7	1.5	0	0.75	
5/19/2015	15.3	17	1.7	0	1.5	
5/29/2015	15.35	17.3	1.95	0	1.5	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE2-1	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/8/2015	0	11.25	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI3-4	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/8/2015	0	13.9	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: AI3-6	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/8/2015	0	17.2	0	0.12	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE3-1	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	0	0	0	0	0	Covered by Ice - No Access
4/15/2015	11.15	11.35	0.2	0	0	REPLACED NRD
5/8/2015	0	11.45	0	0.07	0	REMOVED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: DAY-1	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	16.4	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-8	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/3/2015	14.75	15.7	0.95	0.1	0	Replaced NRD
3/13/2015	0	0	0	0	0	No Access-Well Frozen
3/19/2015	13.6	14.25	0.65	2.01	0.5	Added NRD
3/27/2015	13.65	14	0.35	0.15	0	Replaced NRD
4/1/2015	0	13.6	0	0	0	DID NOT REPLACE NRD
4/7/2015	0	13.65	0	0	0	
4/15/2015	0	13.85	0	0	0	DID NOT REMOVED NRD
4/22/2015	9	9.5	0.5	0.15	0	REMOVED NRD...WELL BE DRILLED OVERSIZED
4/28/2015	16.3	17.05	0.75	0	0.75	
5/8/2015	16.5	18.25	1.75	0.57	0	SPILL BUDDY STOPPED WORKING
5/15/2015	16.4	18.2	1.8	0	1.75	
5/19/2015	16.65	17.95	1.3	0	0.75	
5/29/2015	16.7	18.15	1.45	0	1.15	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-9	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	0	8.2	0	0	0	Left NRD
4/15/2015	0	8.05	0	0	0	DID NOT REPLACE NRD
5/8/2015	0	8.5	0	0.12	0	REMOVED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-10	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU II) Well ID: FA4-11

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
3/3/2015	8.9	9.6	0.7	-0.03	0	Replaced NRD
3/13/2015	8.7	9.6	0.9	0.14	0	Removed NRD
3/19/2015	8.1	9.1	1	0	0	
3/27/2015	8.1	8.55	0.45	0.13	0.375	Added NRD
4/1/2015	0	7.95	0	0	0	
4/7/2015	8	9.15	1.15	0	0.25	
4/15/2015	8.1	9.5	1.4	0	0.38	
4/22/2015	8	9.5	1.5	0	0.75	
4/28/2015	11.05	12.85	1.8	0	2	
5/8/2015	11.35	12.9	1.55	0.59	0	SPILL BUDY STOPPED WORKING
5/15/2015	11.45	12.9	1.45	0	1.18	
5/19/2015	11.5	13	1.5	0	1.25	
5/29/2015	11.6	13.1	1.5	0	1.25	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-12	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	14.5	14.55	0.05	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-13	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	8.35	8.9	0.55	0	0	CAN NOT PUMP ADDED NRD

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU II) Well ID: FA4-14

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
3/3/2015	11.7	12.45	0.75	0.12	0	Replaced NRD
3/13/2015	11.3	11.95	0.65	0.13	0	Removed NRD
3/19/2015	9.95	10.2	0.25	0	0	
3/27/2015	9.75	10.85	1.1	0	0.25	Added NRD
4/1/2015	10.35	10.65	0.3	0.15	0.15	REPLACED NRD
4/7/2015	9.75	10.8	1.05	0	0.25	REPLACED NRD
4/15/2015	10.3	11.5	1.2	0.13	0.38	REPLACED NRD
4/22/2015	0	10.75	0	0	0	REMOVED NRD
4/28/2015	13.1	13.5	0.4	0	0.5	
5/8/2015	13.1	14.3	1.2	0.59	0	SPILL BUDDY STOPPED WORKING
5/15/2015	13.3	14.5	1.2	0	1.75	
5/19/2015	13.4	14.5	1.1	0	1.25	
5/29/2015	13.45	14.9	1.45	0	1.5	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-15	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/3/2015	8.6	8.8	0.2	0.08	0	Replaced NRD
3/13/2015	8.2	8.25	0.05	0.15	0	Replaced NRD
3/19/2015	7.4	8.7	1.3	0.1	0	Replaced NRD
3/27/2015	7.35	7.95	0.6	0.14	0.175	Replaced NRD
4/1/2015	7	7.9	0.9	0.14	0.15	REPLACED NRD
4/7/2015	7.5	8.2	0.7	0.15	0.5	
4/15/2015	7.45	8.3	0.85	0.14	0.25	REPLACED NRD
4/22/2015	7.1	7.8	0.7	0.15	0.38	
4/28/2015	7.65	8.05	0.4	0.15	1.25	
5/8/2015	8.1	8.2	0.1	0.13	0	REPLACED NRD
5/15/2015	8	8.05	0.05	0.14	0	REPLACED NRD
5/19/2015	8	8.05	0.05	0.14	0	REPLACED NRD
5/29/2015	8.1	8.25	0.15	0.13	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-16	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/3/2015	12.1	12.5	0.4	0.12	0	Replaced NRD
3/13/2015	11.56	11.85	0.29	0.11	0	Replaced NRD
3/19/2015	0	11.15	0	0	0	
3/27/2015	10.9	11.5	0.6	0.16	0.75	Replaced NRD
4/1/2015	10.75	11.7	0.95	0.15	0.25	REPLACED NRD
4/7/2015	11.2	11.4	0.2	0.11	0	REPLACED NRD
4/15/2015	11	11.55	0.55	0.13	0.25	REPLACED NRD
4/22/2015	11	11.35	0.35	0.15	0.25	REMOVED NRD WELL BEING OVER DRILLED
4/28/2015	0	14.15	0	0	0	
5/8/2015	14.9	14.95	0.05	0	0	ADDED NRD
5/15/2015	14.5	14.55	0.05	0.1	0	REPLACED NRD
5/19/2015	0	14.6	0	0	0	LEFT NRD
5/29/2015	0	13.7	0	0	0	LEFT NRD IN

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-17	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	7.85	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)				Well ID: FA4-18		
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/3/2015	10.9	11	0.1	0.01	0	Replaced NRD
3/13/2015	0	10.6	0	0	0	Left NRD
3/19/2015	0	10.1	0	0	0	
3/27/2015	9.7	9.8	0.1	0.13	0	Replaced NRD
4/1/2015	0	9.6	0	0	0	DID NOT REPLACE NRD
4/7/2015	0	9.95	0	0	0	
4/15/2015	0	10.1	0	0	0	DID NOT REPLACE NRD
4/22/2015	9.8	9.9	0.1	0.15	0	REMOVED NRD WELL BEING REDRILLED
4/28/2015	0	12.6	0	0	0	
5/8/2015	0	12.8	0	0	0	
5/15/2015	12.9	13.05	0.15	0	0	ADDED NRD
5/19/2015	13	13.1	0.1	0.09	0	REPLACED NRD
5/29/2015	0	13.4	0	0	0	LEFT NRD IN

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-19	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-20	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	11.8	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-21	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	0	13.95	0	0	0	
4/15/2015	0	14.1	0	0	0	DID NOT REPLACED NRD
5/8/2015	0	14.3	0	0.13	0	REMOVED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: FA4-23	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	0	13.25	0	0	0	
4/15/2015	12.7	12.85	0.15	0	0	ADDED NRD
5/8/2015	0	13.3	0	0.12	0	REMOVED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: PGW-2	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	0	0	0	0	0	No Access - Well Frozen
4/15/2015	5.9	6	0.1	0.16	0	REPLACED NRD
5/8/2015	6.75	7.2	0.45	0.14	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report

Metro-North Yard: Harmon (OU II) Well ID: RW-1

Date	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	NAPL Recovered via NRD (gal)	Additional NAPL Recovered (gal)	Comments
3/3/2015	15.3	15.4	0.1	0	0	
3/13/2015	15	15.1	0.1	0	0	
3/19/2015	14.4	14.55	0.15	0	0	
3/27/2015	14.3	14.4	0.1	0	0	
4/1/2015	14.25	14.3	0.05	0	0	
4/7/2015	0	14.5	0	0	0	
4/15/2015	14.4	14.45	0.05	0	0	2.75 BARRELS FILLED
4/22/2015	14.4	14.45	0.05	0	0	
4/28/2015	14.5	14.55	0.05	0	0	
5/8/2015	14.75	14.8	0.05	0	0	
5/15/2015	14.35	14.8	0.45	0	0	
5/19/2015	14.9	15	0.1	0	0	
5/29/2015	15	15.1	0.1	0	0	3 DRUMS FULL

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-1	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	8.4	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-5	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/3/2015	10.1	10.8	0.7	0	0	Replaced NRD
3/13/2015	9.75	10.7	0.95	0	0	
3/19/2015	7.3	9.8	2.5	0	0	
3/27/2015	9.1	10.1	1	0	0.75	
4/1/2015	9.1	9.55	0.45	0	0.5	
4/7/2015	9.25	9.4	0.15	0	0	
4/15/2015	0	9.55	0	0	0	DID NOT REPLACE NRD
4/22/2015	9.55	9.6	0.05	0.59	0	REPLACED NRD
4/28/2015	0	8.6	0	0	0	
5/8/2015	9.8	9.85	0.05	0	0	REPLACED NRD
5/15/2015	9.95	10	0.05	0.47	0	REPLACED NRD
5/19/2015	9.9	9.95	0.05	0.51	0	REPLACED NRD
5/29/2015	10.1	10.2	0.1	0.48	0	REPLACED NRD

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-6	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/8/2015	0	6.4	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-7	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	0	6.95	0	0	0	
4/15/2015	0	7.25	0	0	0	
5/8/2015	0	7.75	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-8	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	0	7.9	0	0	0	
4/15/2015	0	7.5	0	0	0	
5/8/2015	0	7.9	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-9	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
3/13/2015	7.8	7.9	0.1	0	0	Added NRD
4/15/2015	0	8.7	0	0.46	0	REPLACED NRD
5/8/2015	0	8.35	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-10	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	12.3	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-11	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	13.05	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-12	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	13.9	0	0	0	

Metro-North Railroad NAPL Recovery Report						
Metro-North Yard: Harmon (OU II)					Well ID: VE4-13	
Date	**Depth to NAPL (ft)**	**Depth to Water (ft)**	**NAPL Thickness (ft)**	**NAPL Recovered via NRD (gal)**	**Additional NAPL Recovered (gal)**	**Comments**
5/15/2015	0	12.85	0	0	0	

ATTACHMENT C

MONITORING WELL CONSTRUCTION DIAGRAMS
AND
MONITORING WELL DEVELOPMENT LOGS
FOR
REPLACEMENT WELLS

INSTALLED APRIL 24, 2015

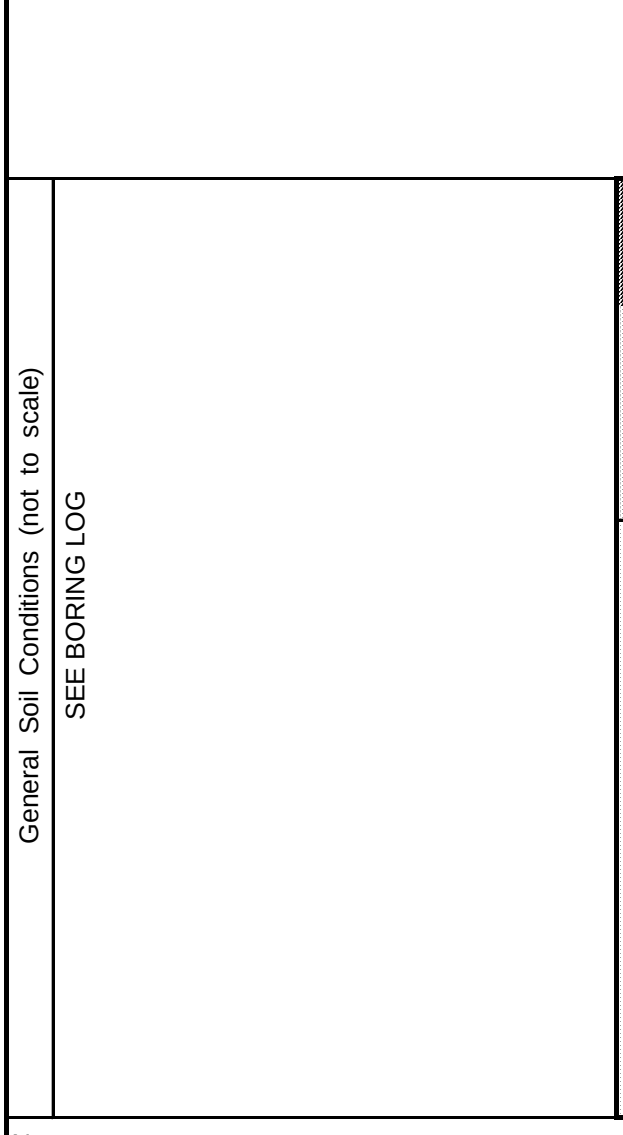
& Associates
200 Riverfront Boulevard, Elmwood Park, NJ 07407 ● Tel: 201-791-0075 ● Fax: 201-791-4533

MONITORING WELL INSTALLATION LOG

PROJECT: Metro North On-Call Environmental Contract
LOCATION: Harmon Yard

WELL NO. **AI2-3**

Well No.	**AI2-3**		
Installation Date:	**4/24/2015**		
Drilling Contractor:	**Miller Env. Group, Inc.**	**Inspector:**	**Craig Diziki**
Foreman:	**Bob Dubois**	**Checked by:**	**Charles McCusker**



5.75	Inside Diameter of Protective Casing (inches)
3.05	Top of Protective Casing Stick Up From Grade (feet)
2.85	Top of Riser Pipe Stick Up From Grade (feet)
1.45	Depth to Bottom of Protective Casing (feet)
1.0	Depth to Top of Bentonite Seal (feet)
Type of Pipe	4-inch OD Schedule 40 PVC
4.0	Depth to Bottom of Bentonite Seal (feet)
5.0	Depth to Top of Well Screen (feet)
15' Screen	
Backfill Type	#2 Well Gravel
Screen	4-inch OD Schedule 40 PVC, 0.020-inch slotted screen
20.0	Depth to Bottom of Well Screen (feet)

Notes:

PID - 0.0 ppm in breathing zone

5 Bags of well gravel used.

Concrete collar installed from top of bentonite seal to grade.

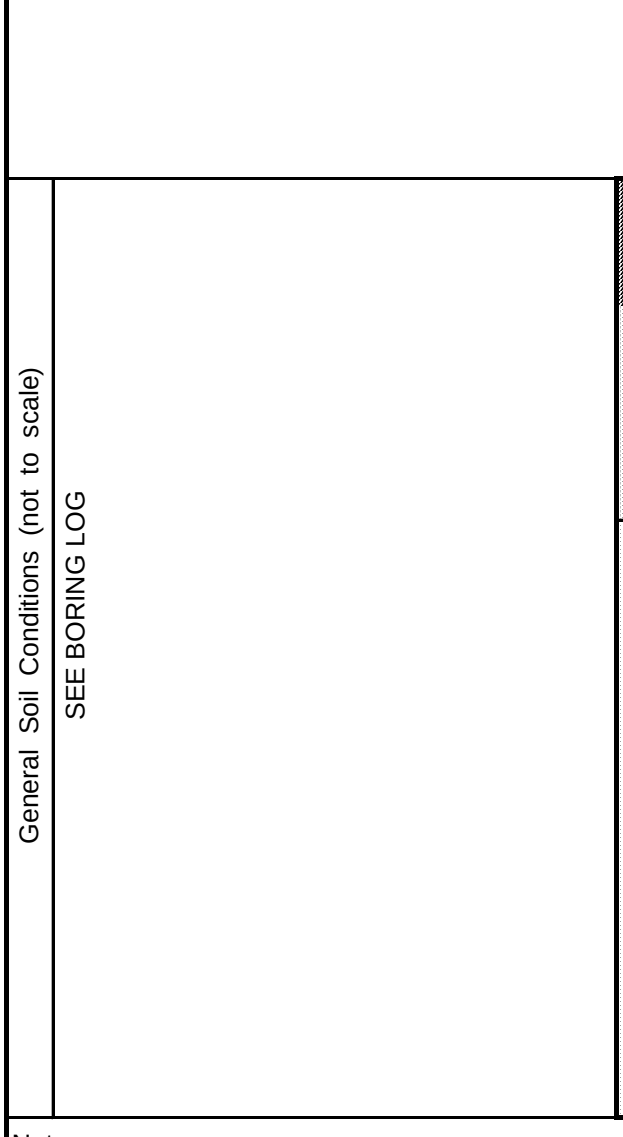
& Associates
200 Riverfront Boulevard, Elmwood Park, NJ 07407 ● Tel: 201-791-0075 ● Fax: 201-791-4533

MONITORING WELL INSTALLATION LOG

PROJECT: Metro North On-Call Environmental Contract
LOCATION: Harmon Yard

WELL NO. **FA4-8**

Well No.	**FA4-8**		
Installation Date:	**4/24/2015**		
Drilling Contractor:	**Miller Env. Group, Inc.**	**Inspector:**	**Craig Diziki**
Foreman:	**Bob Dubois**	**Checked by:**	**Charles McCusker**



5.75	Inside Diameter of Protective Casing (inches)
3.13	Top of Protective Casing Stick Up From Grade (feet)
3.13	Top of Riser Pipe Stick Up From Grade (feet)
1.37	Depth to Bottom of Protective Casing (feet)
1.0	Depth to Top of Bentonite Seal (feet)
Type of Pipe	4-inch OD Schedule 40 PVC
4.0	Depth to Bottom of Bentonite Seal (feet)
5.0	Depth to Top of Well Screen (feet)
15' Screen	
Backfill Type	#2 Well Gravel
Screen	4-inch OD Schedule 40 PVC, 0.020-inch slotted screen
20.0	Depth to Bottom of Well Screen (feet)

Notes:

PID - 0.0 ppm in breathing zone

5 Bags of well gravel used

Concrete collar installed from top of bentonite seal to grade.

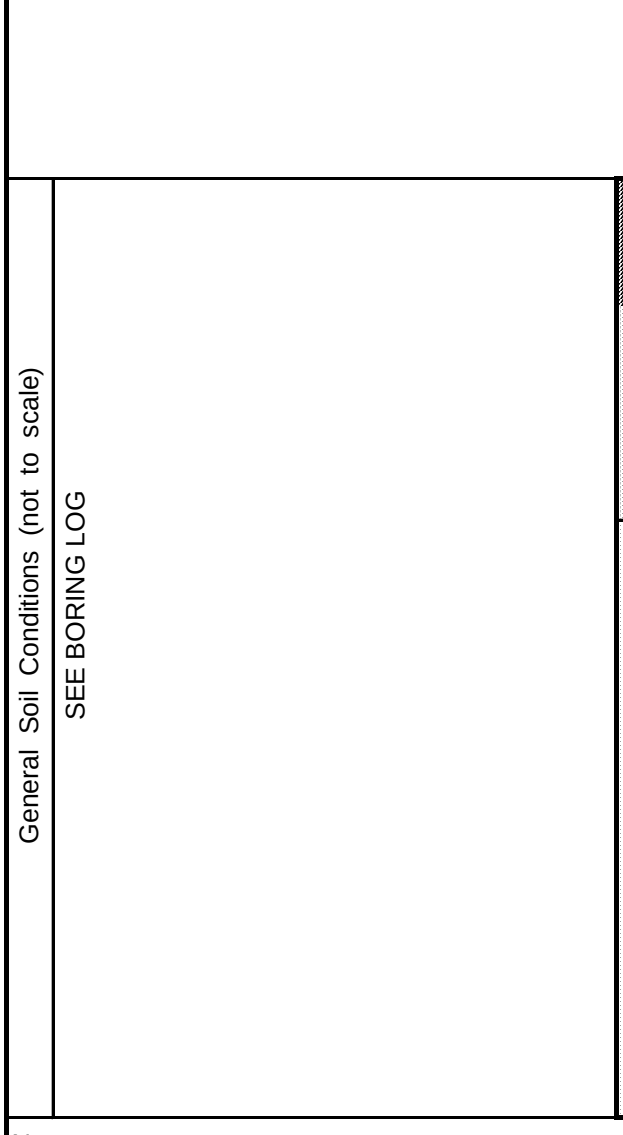
& Associates
200 Riverfront Boulevard, Elmwood Park, NJ 07407 ● Tel: 201-791-0075 ● Fax: 201-791-4533

MONITORING WELL INSTALLATION LOG

PROJECT: Metro North On-Call Environmental Contract
LOCATION: Harmon Yard

WELL NO. **FA4-11**

Well No.	**FA4-11**		
Installation Date:	**4/24/2015**		
Drilling Contractor:	**Miller Env. Group, Inc.**	**Inspector:**	**Craig Diziki**
Foreman:	**Bob Dubois**	**Checked by:**	**Charles McCusker**



5.75	Inside Diameter of Protective Casing (inches)
2.92	Top of Protective Casing Stick Up From Grade (feet)
2.69	Top of Riser Pipe Stick Up From Grade (feet)
1.58	Depth to Bottom of Protective Casing (feet)
1.0	Depth to Top of Bentonite Seal (feet)
Type of Pipe	4-inch OD Schedule 40 PVC
4.0	Depth to Bottom of Bentonite Seal (feet)
5.0	Depth to Top of Well Screen (feet)
10' Screen	
Backfill Type	#2 Well Gravel
Screen	4-inch OD Schedule 40 PVC, 0.020-inch slotted screen
15.0	Depth to Bottom of Well Screen (feet)

Notes:

PID - 0.0 ppm in breathing zone

4 Bags of well gravel used

Concrete collar installed from top of bentonite seal to grade.

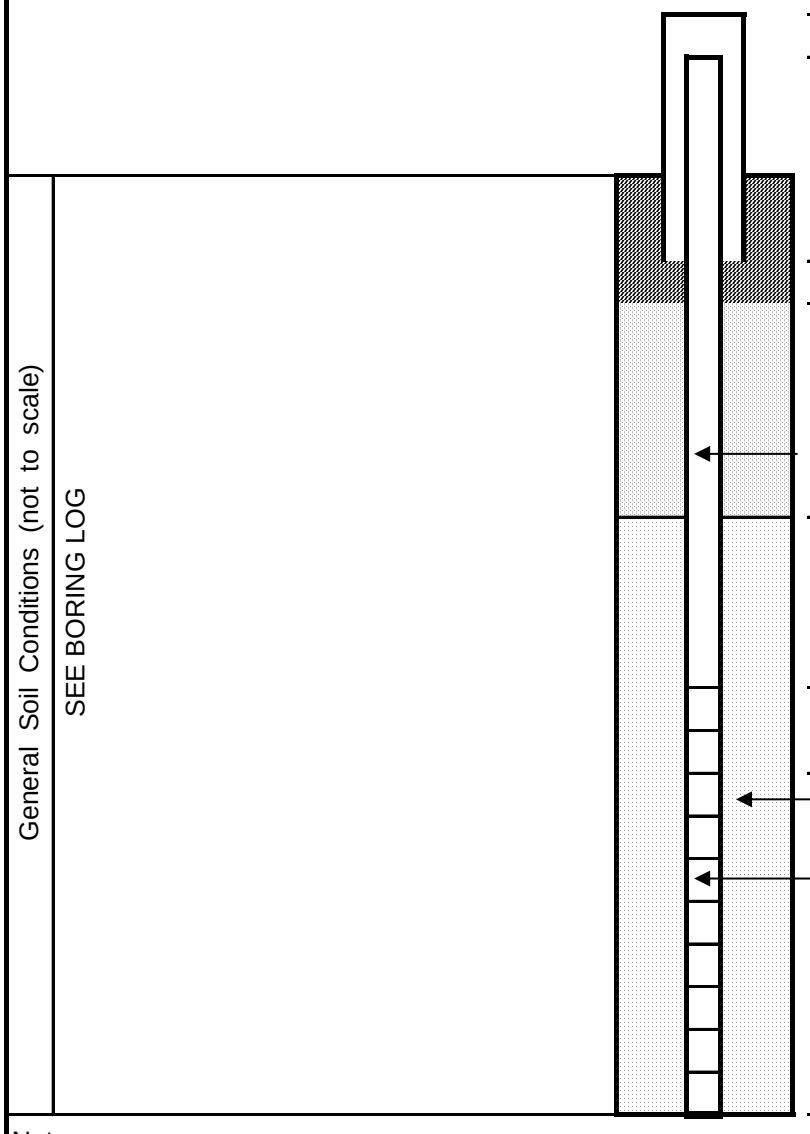
YU & Associates
200 Riverfront Boulevard, Elmwood Park, NJ 07407 ● Tel: 201-791-0075 ● Fax: 201-791-4533

MONITORING WELL INSTALLATION LOG

PROJECT: Metro North On-Call Environmental Contract
LOCATION: Harmon Yard

WELL NO. **FA4-12**

Well No.	**FA4-12**		
Installation Date:	**4/24/2015**		
Drilling Contractor:	**Miller Env. Group, Inc.**	**Inspector:**	**Craig Diziki**
Foreman:	**Bob Dubois**	**Checked by:**	**Charles McCusker**



5.75	Inside Diameter of Protective Casing (inches)
3.08	Top of Protective Casing Stick Up From Grade (feet)
2.92	Top of Riser Pipe Stick Up From Grade (feet)
1.42	Depth to Bottom of Protective Casing (feet)
0.5	Depth to Top of Bentonite Seal (feet)
Type of Pipe	4-inch OD Schedule 40 PVC
2.5	Depth to Bottom of Bentonite Seal (feet)
3.0	Depth to Top of Well Screen (feet)
15' Screen	
Backfill Type	#2 Well Gravel
Screen	4-inch OD Schedule 40 PVC, 0.020-inch slotted screen
18.0	Depth to Bottom of Well Screen (feet)

Notes:

PID - 0.0 ppm in breathing zone

5 Bags of well gravel used

Concrete collar installed from top of bentonite seal to grade.

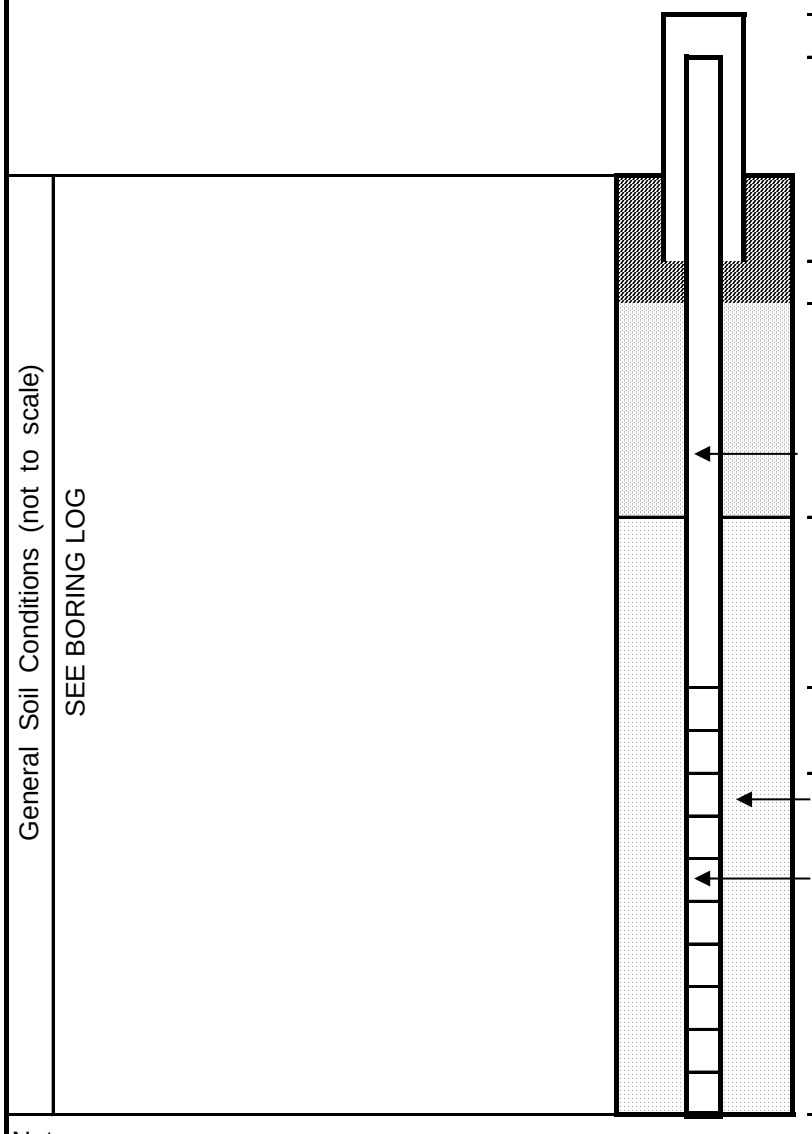
YU & Associates
200 Riverfront Boulevard, Elmwood Park, NJ 07407 ● Tel: 201-791-0075 ● Fax: 201-791-4533

MONITORING WELL INSTALLATION LOG

PROJECT: Metro North On-Call Environmental Contract
LOCATION: Harmon Yard

WELL NO. **FA4-14**

Well No.	**FA4-14**		
Installation Date:	**4/24/2015**		
Drilling Contractor:	**Miller Env. Group, Inc.**	**Inspector:**	**Craig Diziki**
Foreman:	**Bob Dubois**	**Checked by:**	**Charles McCusker**



5.75	Inside Diameter of Protective Casing (inches)
2.76	Top of Protective Casing Stick Up From Grade (feet)
2.59	Top of Riser Pipe Stick Up From Grade (feet)
1.74	Depth to Bottom of Protective Casing (feet)
2.0	Depth to Top of Bentonite Seal (feet)
Type of Pipe	4-inch OD Schedule 40 PVC
5.0	Depth to Bottom of Bentonite Seal (feet)
6.0	Depth to Top of Well Screen (feet)
10' Screen	
Backfill Type	#2 Well Gravel
Screen	4-inch OD Schedule 40 PVC, 0.020-inch slotted screen
16.0	Depth to Bottom of Well Screen (feet)

Notes:

PID - 0.0 ppm in breathing zone

4 Bags of well gravel used

Concrete collar installed from top of bentonite seal to grade.

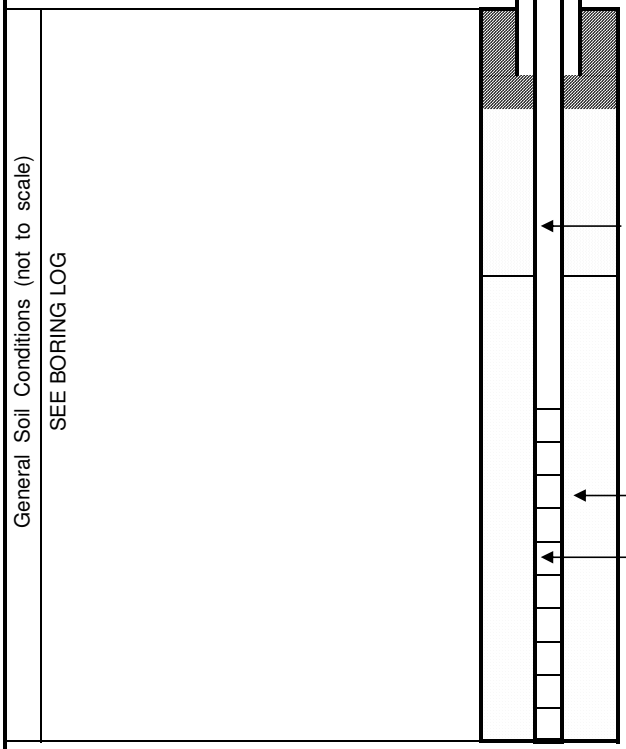
YU & Associates
200 Riverfront Boulevard, Elmwood Park, NJ 07407 ● Tel: 201-791-0075 ● Fax: 201-791-4533

MONITORING WELL INSTALLATION LOG

PROJECT: Metro North On-Call Environmental Contract
LOCATION: Harmon Yard

WELL NO. **FA4-16**

Well No.	**FA4-16**		
Installation Date:	**4/24/2015**		
Drilling Contractor:	**Miller Env. Group, Inc.**	**Inspector:**	**Craig Diziki**
Foreman:	**Bob Dubois**	**Checked by:**	**Charles McCusker**



5.75	Inside Diameter of Protective Casing (inches)
3.49	Top of Casing Stick Up From Grade (feet)
3.25	Top of Riser Pipe Stick Up From Grade (feet)
1.01	Depth to Bottom of Protective Casing (feet)
2.0	Depth to Top of Bentonite Seal (feet)
Type of Pipe	4-inch OD Schedule 40 PVC
5.0	Depth to Bottom of Bentonite Seal (feet)
6.0	Depth to Top of Well Screen (feet)
10' Screen	
Backfill Type	#2 Well Gravel
Screen	4-inch OD Schedule 40 PVC, 0.020-inch slotted screen
16.0	Depth to Bottom of Well Screen (feet)

Notes:

PID - 0.0 ppm in breathing zone

4 Bags of well gravel used

Concrete collar installed from top of bentonite seal to grade.

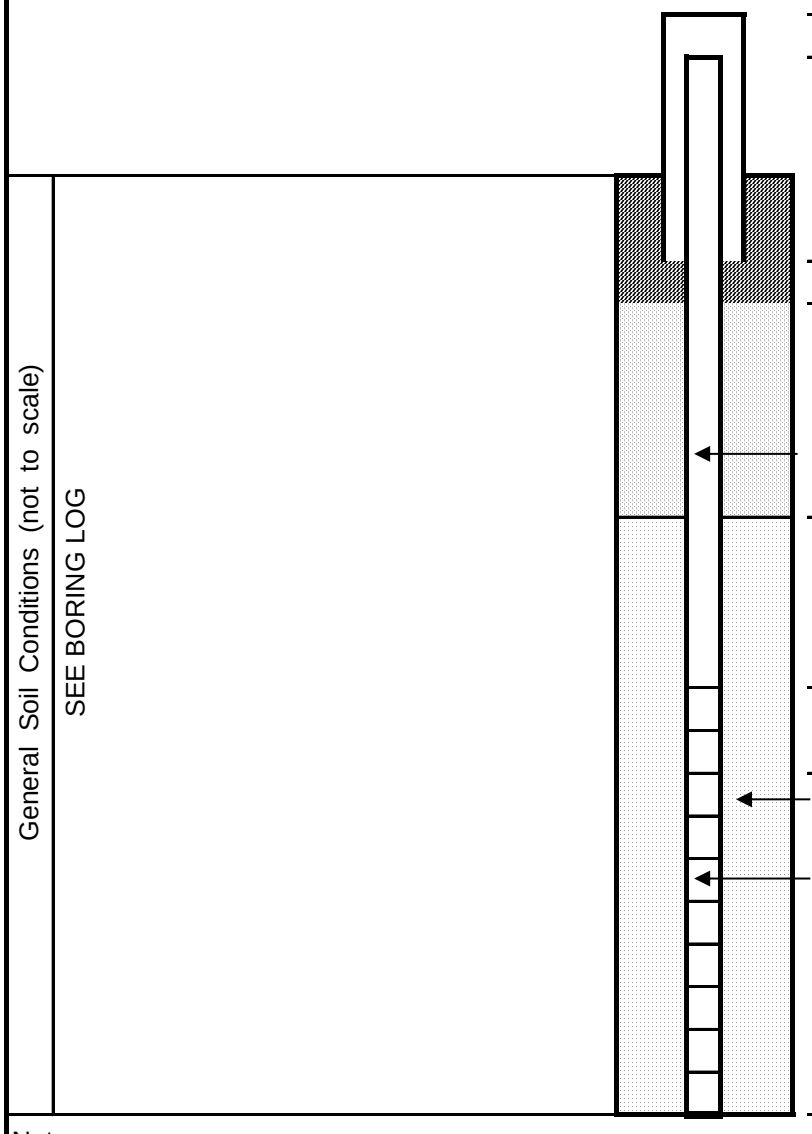
& Associates
200 Riverfront Boulevard, Elmwood Park, NJ 07407 ● Tel: 201-791-0075 ● Fax: 201-791-4533

MONITORING WELL INSTALLATION LOG

PROJECT: Metro North On-Call Environmental Contract
LOCATION: Harmon Yard

WELL NO. **FA4-18**

Well No.	**FA4-18**		
Installation Date:	**4/24/2015**		
Drilling Contractor:	**Miller Env. Group, Inc.**	**Inspector:**	**Craig Diziki**
Foreman:	**Bob Dubois**	**Checked by:**	**Charles McCusker**



5.75	Inside Diameter of Protective Casing (inches)
3.29	Top of Casing Stick Up From Grade (feet)
3.13	Top of Riser Pipe Stick Up From Grade (feet)
1.21	Depth to Bottom Protective Casing (feet)
1.0	Depth to Top of Bentonite Seal (feet)
Type of Pipe	4-inch OD Schedule 40 PVC
4.0	Depth to Bottom of Bentonite Seal (feet)
5.0	Depth to Top of Well Screen (feet)
10' Screen	
Backfill Type	#2 Well Gravel
Screen	4-inch OD Schedule 40 PVC, 0.020-inch slotted screen
15.0	Depth to Bottom of Well Screen (feet)

Notes:

PID - 0.0 ppm in breathing zone

4 Bags of well gravel used

Concrete collar installed from top of bentonite seal to grade.

WELL DEVELOPMENT DATA - OU-II AREA
HARMON YARD METRO-NORTH RAILROAD

Well	Well Depth (feet)	Depth to Water Before Development (feet)	Depth to Product Before Development (feet)	Start Time	Depth to Water After Development (feet)	Depth to Product After Development (feet)	Stop Time	Amount Purged (gallons)	Notes
FA4-18	15	12.27	No Product	08:10	12.42	No Product	8:34	12	Initial water coming from pump is turbid (brown). No product evident. PID = 0.0 PPM. Overpumping was complete when water ran clear.
FA4-16	16	13.82	No Product	8:45	14.02	No Product	9:17	6	Initial water coming from pump is slightly turbid (light brown). No product evident. PID = 0.0 PPM. Overpumping was complete when water ran clear.
FA4-14	16	13.00	12.78	9:40 on 4/24/15; 10:15 on 4/27/15	12.87	12.86	10:06 on 4/24/15;11:05 on 4/27/15	17.5	4/24/15: Initial water coming from pump is turbid (orange brown) with evident product, PID= 0.0 ppm. Pump was continually getting clogged. Moved on to attempt FA4-12, but same issue occurred. 4/27/15: Reattempted development with success, water ran clear.
FA4-12	18	14.87	14.86	10:15 on 4/24/15; 11:20 on 4/27/15	13.99	No Product	11:00 on 4/24/15;12:00 on 4/27/15	17	4/24/15: Initial water coming from pump is turbid (dark brown) with evident product, PID= 0.0 ppm. Pump was continually getting clogged. Disposable bailer used for about 20 minutes and electric mini- pump reattempted. Mini-pump still clogged up. 4/27/15: Reattempted development with success, water ran clear.
FA4-11	15	11.92	11.48	11:09	11.89	11.79	11:55	18	Initial water coming from pump is slightly turbid (light brown) with evident product. PID = 0.0 PPM. Development was complete when water ran clear.
FA4-8	20	16.32	16.26	12:15	16.17	No Product	12:55	14	Initial water coming from pump is turbid (brown) with evident product. PID = 0.0 PPM. Development was complete when water ran clear.
AI2-3	20	14.89	14.88	13:30	14.94	No Product	13:47	8	Initial water coming from pump is mostly clear with sheen. PID = 0.0 PPM. Development was complete when water ran clear.

Note: Depth to water and depth to product readings are from the top of the inner casing.

ATTACHMENT D

YORK LABORATORY REPORTS/ CHAIN-OF-CUSTODY DOCUMENTATION FOR DRILLING, WELL DEVELOPMENT WASTE AND ACCUMULATED NAPL

Technical Report

prepared for:

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Mr. Ken McHale, Ass't. Director

Report Date: 05/11/2015
Client Project ID: Harmon OU 2 Well Overdrilling
York Project (SDG) No.: 15E0092

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 05/11/2015
Client Project ID: Harmon OU 2 Well Overdrilling
York Project (SDG) No.: 15E0092

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Mr. Ken McHale, Ass't. Director

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 May 04, 2015 and listed below. The project was identified as your project: **Harmon OU 2 Well Overdrilling**.

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 Notes 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 attachment to 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
15E0092-01	Harmon OU 2 well overdrilling-01	Soil	04/29/2015	05/04/2015
15E0092-02	Harmon OU 2 well overdrilling-02	Soil	04/29/2015	05/04/2015
15E0092-03	Harmon OU 2 well overdrilling-03	Soil	04/29/2015	05/04/2015
15E0092-04	Harmon OU 2 well overdrilling-04	Soil	04/29/2015	05/04/2015
15E0092-05	Harmon OU 2 well overdrilling-05	Oil	04/29/2015	05/04/2015
15E0092-06	Harmon OU 2 well overdrilling-06	Soil	04/29/2015	05/04/2015
15E0092-07	Harmon OU 2 well overdrilling-07	Soil	04/29/2015	05/04/2015
15E0092-08	Harmon OU 2 well overdrilling-08	Soil	04/29/2015	05/04/2015
15E0092-09	Harmon OU 2 well overdrilling-09	Oil	04/29/2015	05/04/2015
15E0092-10	Harmon OU 2 well overdrilling-10	Soil	04/29/2015	05/04/2015
15E0092-11	Harmon OU 2 well overdrilling-11	Oil	04/29/2015	05/04/2015
15E0092-12	Harmon OU 2 well overdrilling-12	Liquid	04/29/2015	05/04/2015

General Notes for York Project (SDG) No.: 15E0092

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 05/11/2015

Benjamin Gulizia
Laboratory Director

Soil / AI 2-3

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-01 **York Sample ID:** 15E0092-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	0.0180	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:33	AMC
								Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.5 %*	*30-140*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.3**		%	0.100	0.100	1	SM 2540G	05/08/2015 07:18	05/08/2015 13:28	KK
								Certifications: CTDOH			

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-02 **York Sample ID:** 15E0092-02

Soil / AI 2-3

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	05/08/2015 12:54	05/11/2015 13:53	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-02 **York Sample ID:** 15E0092-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 13:53	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 13:53	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 13:53	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 13:53	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 13:53	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 13:53	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A Certifications:	05/08/2015 12:54	05/11/2015 13:53	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*60.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*101 %*	*30-140*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.2**		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	05/08/2015 07:18	05/08/2015 13:28	KK

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-03 **York Sample ID:** 15E0092-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Soil / FA4-16

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:08	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:08	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:08	AMC

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-03 **York Sample ID:** 15E0092-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:08	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:08	AMC
11097-69-1	**Aroclor 1254**	**0.261**		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:08	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:08	AMC
1336-36-3	*** Total PCBs**	**0.261**		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications:	05/08/2015 12:54	05/11/2015 14:08	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.4 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*114 %*	*30-140*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.5**		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	05/08/2015 07:18	05/08/2015 13:28	KK

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-04 **York Sample ID:** 15E0092-04

Soil / FA4-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0199	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:23	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0199	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:23	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0199	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:23	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0199	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:23	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0199	0.0199	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:23	AMC

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-04 **York Sample ID:** 15E0092-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	**Aroclor 1254**	**0.181**		mg/kg dry	0.0199	0.0199	1	EPA 8082A	05/08/2015 12:54	05/11/2015 14:23	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0199	0.0199	1	EPA 8082A	05/08/2015 12:54	05/11/2015 14:23	AMC
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	*** Total PCBs**	**0.181**		mg/kg dry	0.0199	0.0199	1	EPA 8082A	05/08/2015 12:54	05/11/2015 14:23	AMC
								Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.4 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*121 %*	*30-140*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.6**		%	0.100	0.100	1	SM 2540G	05/08/2015 07:18	05/08/2015 13:28	KK
								Certifications: CTDOH			

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-05 L1 FA4-18, 16, 14, 12 **York Sample ID:** 15E0092-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Oil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.988	4.94	1	EPA 8082A	05/11/2015 09:15	05/11/2015 11:57	AMC
								Certifications: CTDOH,NELAC-NY10854			
11104-28-2	Aroclor 1221	ND		mg/kg	0.988	4.94	1	EPA 8082A	05/11/2015 09:15	05/11/2015 11:57	AMC
								Certifications: CTDOH,NELAC-NY10854			
11141-16-5	Aroclor 1232	ND		mg/kg	0.988	4.94	1	EPA 8082A	05/11/2015 09:15	05/11/2015 11:57	AMC
								Certifications: CTDOH,NELAC-NY10854			
53469-21-9	Aroclor 1242	ND		mg/kg	0.988	4.94	1	EPA 8082A	05/11/2015 09:15	05/11/2015 11:57	AMC
								Certifications: CTDOH,NELAC-NY10854			
12672-29-6	Aroclor 1248	ND		mg/kg	0.988	4.94	1	EPA 8082A	05/11/2015 09:15	05/11/2015 11:57	AMC
								Certifications: CTDOH,NELAC-NY10854			
11097-69-1	**Aroclor 1254**	**22.0**		mg/kg	0.988	4.94	1	EPA 8082A	05/11/2015 09:15	05/11/2015 11:57	AMC
								Certifications: CTDOH,NELAC-NY10854			
11096-82-5	Aroclor 1260	ND		mg/kg	0.988	4.94	1	EPA 8082A	05/11/2015 09:15	05/11/2015 11:57	AMC
								Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-05 **York Sample ID:** 15E0092-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Oil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	*** Total PCBs**	**22.0**		mg/kg	0.988	4.94	1	EPA 8082A Certifications:	05/11/2015 09:15	05/11/2015 11:57	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*120 %*	*30-150*

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-06 **York Sample ID:** 15E0092-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092 Soil / FA 4-18	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:38	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:38	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:38	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:38	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:38	AMC
11097-69-1	**Aroclor 1254**	**0.517**		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:38	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:38	AMC
1336-36-3	*** Total PCBs**	**0.517**		mg/kg dry	0.0190	0.0190	1	EPA 8082A Certifications:	05/08/2015 12:54	05/11/2015 14:38	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*112 %*	*30-140*

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-06 **York Sample ID:** 15E0092-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.8		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	05/08/2015 07:18	05/08/2015 13:28	KK

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-07 **York Sample ID:** 15E0092-07

Mixed/ FA 4-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:53	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:53	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:53	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:53	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:53	AMC
11097-69-1	**Aroclor 1254**	**0.0887**		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:53	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 14:53	AMC
1336-36-3	* Total PCBs	0.0887		mg/kg dry	0.0242	0.0242	1	EPA 8082A Certifications	05/08/2015 12:54	05/11/2015 14:53	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*108 %*	*30-140*

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	68.9		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	05/08/2015 07:18	05/08/2015 13:28	KK

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-07 **York Sample ID:** 15E0092-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-08 Mixed FA 4-12 **York Sample ID:** 15E0092-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB) **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:09	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:09	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:09	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:09	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:09	AMC
11097-69-1	**Aroclor 1254**	**0.141**		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:09	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:09	AMC
1336-36-3	*** Total PCBs**	**0.141**		mg/kg dry	0.0255	0.0255	1	EPA 8082A Certifications:	05/08/2015 12:54	05/11/2015 15:09	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73 9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*115 %*	*30-140*

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**65.3**		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	05/08/2015 07:18	05/08/2015 13 28	KK

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-09 L/ AI 2-3, FA 4-8, (whole waste 25%) **York Sample ID:** 15E0092-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Oil	April 29, 2015 3:00 pm	05/04/2015

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-09 **York Sample ID:** 15E0092-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Oil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:16	AMC
11104-28-2	Aroclor 1221	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:16	AMC
11141-16-5	Aroclor 1232	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:16	AMC
53469-21-9	Aroclor 1242	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:16	AMC
12672-29-6	Aroclor 1248	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:16	AMC
11097-69-1	Aroclor 1254	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:16	AMC
11096-82-5	Aroclor 1260	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:16	AMC
1336-36-3	* Total PCBs	ND		mg/kg	0.957	4.78	1	EPA 8082A Certifications:	05/11/2015 09:15	05/11/2015 12:16	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.5 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*123 %*	*30-150*

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-10 mixed) FA4-8 **York Sample ID:** 15E0092-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:28	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:28	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:28	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:28	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:28	AMC
11097-69-1	**Aroclor 1254**	**0.0769**		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:28	AMC

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-10 **York Sample ID:** 15E0092-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Soil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/08/2015 12:54	05/11/2015 15:28	AMC
1336-36-3	*** Total PCBs**	**0.0769**		mg/kg dry	0.0220	0.0220	1	EPA 8082A Certifications:	05/08/2015 12:54	05/11/2015 15:28	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*107 %*	*30-140*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**75.7**		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	05/08/2015 07:18	05/08/2015 13:28	KK

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-11 **York Sample ID:** 15E0092-11

L / FA 4-18, 16, 12, 11, 8

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Oil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.973	4.86	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:36	AMC
11104-28-2	Aroclor 1221	ND		mg/kg	0.973	4.86	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:36	AMC
11141-16-5	Aroclor 1232	ND		mg/kg	0.973	4.86	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:36	AMC
53469-21-9	Aroclor 1242	ND		mg/kg	0.973	4.86	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:36	AMC
12672-29-6	Aroclor 1248	ND		mg/kg	0.973	4.86	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:36	AMC
11097-69-1	**Aroclor 1254**	**19.5**		mg/kg	0.973	4.86	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:36	AMC
11096-82-5	Aroclor 1260	ND		mg/kg	0.973	4.86	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/11/2015 09:15	05/11/2015 12:36	AMC
1336-36-3	*** Total PCBs**	**19.5**		mg/kg	0.973	4.86	1	EPA 8082A Certifications:	05/11/2015 09:15	05/11/2015 12:36	AMC

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-11 **York Sample ID:** 15E0092-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Oil	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.0 %*			*30-150*						
2051-24-3	*Surrogate: Decachlorobiphenyl*	*128 %*			*30-150*						

Sample Information

Client Sample ID: Harmon OU 2 well overdrilling-12 L/ various **York Sample ID:** 15E0092-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0092	Harmon OU 2 Well Overdrilling	Liquid	April 29, 2015 3:00 pm	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	05/08/2015 08:14	05/08/2015 13:29	AMC
11104-28-2	Aroclor 1221	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	05/08/2015 08:14	05/08/2015 13:29	AMC
11141-16-5	Aroclor 1232	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	05/08/2015 08:14	05/08/2015 13:29	AMC
53469-21-9	Aroclor 1242	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	05/08/2015 08:14	05/08/2015 13:29	AMC
12672-29-6	Aroclor 1248	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	05/08/2015 08:14	05/08/2015 13:29	AMC
11097-69-1	Aroclor 1254	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	05/08/2015 08:14	05/08/2015 13:29	AMC
11096-82-5	Aroclor 1260	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	05/08/2015 08:14	05/08/2015 13:29	AMC
1336-36-3	* Total PCBs	ND	HT-01	ug/L	0.0645	0.0645	1	EPA 8082A Certifications:	05/08/2015 08:14	05/08/2015 13:29	AMC
	Surrogate Recoveries	**Result**			**Acceptance Range**						
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.2 %*	HT-01		*30-120*						
2051-24-3	*Surrogate: Decachlorobiphenyl*	*92.5 %*	HT-01		*30-120*						

Analytical Batch Summary

Batch ID: BE50395 **Preparation Method:** % Solids Prep **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15E0092-01	Harmon OU 2 well overdrilling	05/08/15
15E0092-02	Harmon OU 2 well overdrilling	05/08/15
15E0092-03	Harmon OU 2 well overdrilling	05/08/15
15E0092-04	Harmon OU 2 well overdrilling	05/08/15
15E0092-06	Harmon OU 2 well overdrilling	05/08/15
15E0092-07	Harmon OU 2 well overdrilling	05/08/15
15E0092-08	Harmon OU 2 well overdrilling	05/08/15
15E0092-10	Harmon OU 2 well overdrilling	05/08/15

Batch ID: BE50402 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
15E0092-12	Harmon OU 2 well overdrilling	05/08/15
BE50402-BLK1	Blank	05/08/15
BE50402-BS1	LCS	05/08/15
BE50402-BSD1	LCS Dup	05/08/15

Batch ID: BE50433 **Preparation Method:** EPA 3550C **Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
15E0092-01	Harmon OU 2 well overdrilling	05/08/15
15E0092-02	Harmon OU 2 well overdrilling	05/08/15
15E0092-03	Harmon OU 2 well overdrilling	05/08/15
15E0092-04	Harmon OU 2 well overdrilling	05/08/15
15E0092-06	Harmon OU 2 well overdrilling	05/08/15
15E0092-07	Harmon OU 2 well overdrilling	05/08/15
15E0092-08	Harmon OU 2 well overdrilling	05/08/15
15E0092-10	Harmon OU 2 well overdrilling	05/08/15
BE50433-BLK1	Blank	05/08/15
BE50433-BS2	LCS	05/08/15
BE50433-BSD2	LCS Dup	05/08/15

Batch ID: BE50484 **Preparation Method:** Oil Preparation for GC **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
15E0092-05	Harmon OU 2 well overdrilling	05/11/15
15E0092-09	Harmon OU 2 well overdrilling	05/11/15
15E0092-11	Harmon OU 2 well overdrilling	05/11/15
BE50484-BLK1	Blank	05/11/15
BE50484-SRM1	Reference	05/11/15

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE50402 - EPA SW846-3510C Low Level											
Blank (BE50402-BLK1)								Prepared & Analyzed: 05/08/2015			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.117*		"	*0.203*		*57.6*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.161*		"	*0.201*		*80.1*	*30-120*				
LCS (BE50402-BS1)								Prepared & Analyzed: 05/08/2015			
Aroclor 1016	0.923	0.0500	ug/L	1.00		92.3	40-120				
Aroclor 1260	0.994	0.0500	"	1.00		99.4	40-120				
Surrogate: Tetrachloro-m-xylene	*0.126*		"	*0.203*		*62.1*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.189*		"	*0.201*		*94.0*	*30-120*				
LCS Dup (BE50402-BSD1)								Prepared & Analyzed: 05/08/2015			
Aroclor 1016	0.809	0.0500	ug/L	1.00		80.9	40-120		13.2	30	
Aroclor 1260	0.943	0.0500	"	1.00		94.3	40-120		5.27	30	
Surrogate: Tetrachloro-m-xylene	*0.116*		"	*0.203*		*57.1*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.179*		"	*0.201*		*89.1*	*30-120*				
Batch BE50433 - EPA 3550C											
Blank (BE50433-BLK1)								Prepared: 05/08/2015 Analyzed: 05/11/2015			
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0353*		"	*0.0677*		*52.2*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0473*		"	*0.0670*		*70.6*	*30-140*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE50433 - EPA 3550C											
LCS (BE50433-BS2)								Prepared: 05/08/2015 Analyzed: 05/11/2015			
Aroclor 1016	0.282	0.0167	mg/kg wet	0.333		84.6	40-130				
Aroclor 1260	0.283	0.0167	"	0.333		84.8	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0487*		"	*0.0677*		*71.9*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0487*		"	*0.0670*		*72.6*	*30-140*				
LCS Dup (BE50433-BSD2)								Prepared: 05/08/2015 Analyzed: 05/11/2015			
Aroclor 1016	0.283	0.0167	mg/kg wet	0.333		85.0	40-130		0.542	25	
Aroclor 1260	0.285	0.0167	"	0.333		85.4	40-130		0.752	25	
Surrogate: Tetrachloro-m-xylene	*0.0487*		"	*0.0677*		*71.9*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0507*		"	*0.0670*		*75.6*	*30-140*				
Batch BE50484 - Oil Preparation for GC											
Blank (BE50484-BLK1)								Prepared & Analyzed: 05/11/2015			
Aroclor 1016	ND	5.00	mg/kg								
Aroclor 1221	ND	5.00	"								
Aroclor 1232	ND	5.00	"								
Aroclor 1242	ND	5.00	"								
Aroclor 1248	ND	5.00	"								
Aroclor 1254	ND	5.00	"								
Aroclor 1260	ND	5.00	"								
Total PCBs	ND	5.00	"								
Surrogate: Tetrachloro-m-xylene	*18.7*		"	*20.0*		*93.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*23.1*		"	*20.0*		*116*	*30-150*				
Reference (BE50484-SRM1)								Prepared & Analyzed: 05/11/2015			
Aroclor 1260	21.5	4.94	mg/kg	17.8		121	19.06-140.6				
Surrogate: Tetrachloro-m-xylene	*15.4*		"	*19.7*		*78.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*22.7*		"	*19.7*		*115*	*30-150*				

Notes and Definitions

HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.

---

*	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

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories
120 Research Dr.
Stratford, CT 06615
(203) 325-1371
Fax (203) 357-0166

Field Chain-of-Custody Record

Page ___ of ___

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15E0092

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: MNR	Company: K. McHale	Company: MNR	Harmon OU II well overdrilling	RUSH - Same Day ☐	Summary Report ___
Address:	Address: T. Roszak	Address:		RUSH - Next Day ☐	Summary w/ QA Summary ___
Phone No.	Phone No.	Phone No.	Purchase Order No.	RUSH - Two Day ☐	CT RCP Package ___
Contact Person:	Attention: J. Antonio	Attention:		RUSH - Three Day ☐	CTRCP DQA/DUE Pkg ___
E-Mail Address:	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY ✓ NJ ___	RUSH - Four Day ☐	NY ASP A Package ___
				Standard(5-7 Days) ☐	NY ASP B Package ___
					NJDEP Red. Deliv. ___

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.

[signature]
Samples Collected/Authorized By (Signature)
F. Slater
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Leachate	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Electronic Data Deliverables (EDD)
Simple Excel ___
NYSDEC EQuIS ✓
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other ___
York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Harmon OU II Well Overdrilling			* All twelve samples to be tested for PCB's * Samples numbered from one to twelve. * Date/Time sampled from 4/28/15 to 4/29/15	12 each, 1-liter Amber unpreserved

Comments
EMail To:
CSMELT@daymail

Preservation: Check those Applicable — 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO$_3$ ___ H$_2$SO$_4$ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Office	5-4-15	[signature] 5-4-15	10:25

Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		[signature] 5/4/15	1540

Temperature on Receipt: 4.9°C

Technical Report

prepared for:

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Mr. Ken McHale, Ass't. Director

Report Date: 05/07/2015
Client Project ID: Harmon OUII Oil Recovery
York Project (SDG) No.: 15E0083

Report Date: 05/07/2015
Client Project ID: Harmon OUII Oil Recovery
York Project (SDG) No.: 15E0083

Metro North Commuter Railroad
Env. Dept. c/o Yardmaster, 24 Fisher Lane
White Plains NY, 10603
Attention: Mr. Ken McHale, Ass't. Director

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 May 04, 2015 and listed below. The project was identified as your project: **Harmon OUII Oil Recovery**.

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 Notes 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 attachment to 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
15E0083-01	Harmon OUII recovered oil	Oil	05/01/2015	05/04/2015
15E0083-02	Harmon OUII recovered oil	Oil	05/01/2015	05/04/2015

General Notes for York Project (SDG) No.: 15E0083

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 05/07/2015

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **Harmon OUII recovered oil** **York Sample ID:** **15E0083-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0083	Harmon OUII Oil Recovery	Oil	May 1, 2015 10:45 am	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:18	AMC
11104-28-2	Aroclor 1221	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:18	AMC
11141-16-5	Aroclor 1232	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:18	AMC
53469-21-9	Aroclor 1242	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:18	AMC
12672-29-6	Aroclor 1248	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:18	AMC
11097-69-1	Aroclor 1254	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:18	AMC
11096-82-5	Aroclor 1260	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:18	AMC
1336-36-3	* Total PCBs	ND		mg/kg	0.917	4.58	1	EPA 8082A Certifications:	05/06/2015 08:42	05/06/2015 14:18	AMC

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*109 %*		*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*157 %*	GC-Sur r	*30-150*

Sample Information

Client Sample ID: **Harmon OUII recovered oil** **York Sample ID:** **15E0083-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0083	Harmon OUII Oil Recovery	Oil	May 1, 2015 11:00 am	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:38	AMC
11104-28-2	Aroclor 1221	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:38	AMC
11141-16-5	Aroclor 1232	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:38	AMC
53469-21-9	Aroclor 1242	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:38	AMC
12672-29-6	Aroclor 1248	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:38	AMC

Sample Information

Client Sample ID: **Harmon OUII recovered oil** **York Sample ID:** **15E0083-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15E0083	Harmon OUII Oil Recovery	Oil	May 1, 2015 11:00 am	05/04/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Oil Preparation for GC

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:38	AMC
11096-82-5	Aroclor 1260	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications: CTDOH,NELAC-NY10854	05/06/2015 08:42	05/06/2015 14:38	AMC
1336-36-3	* Total PCBs	ND		mg/kg	0.994	4.97	1	EPA 8082A Certifications:	05/06/2015 08:42	05/06/2015 14:38	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*112 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*149 %*	*30-150*

Analytical Batch Summary

Batch ID: BE50257 **Preparation Method:** Oil Preparation for GC **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
15E0083-01	Harmon OUII recovered oil	05/06/15
15E0083-02	Harmon OUII recovered oil	05/06/15
BE50257-BLK1	Blank	05/06/15
BE50257-SRM1	Reference	05/06/15

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE50257 - Oil Preparation for GC											
Blank (BE50257-BLK1)								Prepared & Analyzed: 05/06/2015			
Aroclor 1016	ND	5.00	mg/kg								
Aroclor 1221	ND	5.00	"								
Aroclor 1232	ND	5.00	"								
Aroclor 1242	ND	5.00	"								
Aroclor 1248	ND	5.00	"								
Aroclor 1254	ND	5.00	"								
Aroclor 1260	ND	5.00	"								
Total PCBs	ND	5.00	"								
Surrogate: Tetrachloro-m-xylene	*24.0*		*"*	*20.0*		*120*	*30-150*				
Surrogate: Decachlorobiphenyl	*27.4*		*"*	*20.0*		*137*	*30-150*				
Reference (BE50257-SRM1)								Prepared & Analyzed: 05/06/2015			
Aroclor 1260	24.0	4.95	mg/kg	17.8		135	19.06-140.6				
Surrogate: Tetrachloro-m-xylene	*19.5*		*"*	*19.8*		*98.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*27.2*		*"*	*19.8*		*138*	*30-150*				

Notes and Definitions

GC-Surr Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the alternate surrogate.

---

*	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
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15E0083

YOUR Information	**Report To:**	**Invoice To:**	**YOUR Project ID**
Company: MNR	Company: K. McHale	Company: MNR	Harmon OU II oil recovery
Address:	Address: T. Roszak	Address:	**Purchase Order No.**
Phone No.	Phone No.	Phone No.	
Contact Person:	Attention: J. Antonio	Attention:	
E-Mail Address:	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package ___
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

- Simple Excel ___
- NYSDEC EQuIS ✓
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___

York Regulatory Comparison

Excel Spreadsheet

Compare to the following Regs. (please fill in):

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/Authorized By (Signature)

Fred Slater
Name (printed)

Matrix Codes

S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Harmon OU II recovered oil	5/1/15 1045 hrs.		#5-1 test for PCB's	1-1ltr. Amber unpreserved
Harmon OU II recovered oil	5/1/15 1100 hrs		#5-2 test for PCB's	1-1ltr. Amber unpreserved

Comments
E Mail To:
CSMELT@daymail

Preservation Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Office	5-4-15	Chris	5-4-15 10:25
Samples Relinquished By	Date/Time	Samples Received By	Date/Time
		[illegible]	5/4/15 1540
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt 5.1 °C

ATTACHMENT E

BILLS OF LADING AND WASTE MANIFESTS
FOR
DRILLING, WELL DEVELOPMENT WASTE
AND
ACCUMULATED NAPL

ENVIRONMENTAL

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DID: 10541 (12) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD084006477

2. Page 1 of: 1

3. Emergency Response Phone: CHIEF DISPATCHER 212-340-2050

4. Manifest Tracking Number: 009662553 JJK

5. Generator's Name and Mailing Address:
METRO NORTH RAILROAD
C/O ENVIRONMENTAL DEPT
525 NORTH BROADWAY
WHITE PLAINS, NY 10603

Generator's Site Address (if different than mailing address):
METRO NORTH - CROTON ON HUDSON
1 CROTON POINT AVENUE
CROTON ON HUDSON, NY 10520

Generator's Phone: 914-461-0593 ATTN:GAIL SILKE

6. Transporter 1 Company Name: FREEHOLD CARTAGE, INC. — U.S. EPA ID Number: NJD054126164

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, LLC
1550 BALMER ROAD
PO BOX 200
MODEL CITY, NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: 716-286-8231

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ UN2315, POLYCHLORINATED BIPHENYLS, LIQUID 9, PG III "SOLUTION"	6	DM	562	K		B002	B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.) PCB OIL/WATER (RT9569) ERG#171 WTS ORDER # 58802 81668233

NJ113 24 783069 NS NJDEP 4/5/98

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert Sheckloss [illegible] — Signature: [signature] — Month Day Year: 04/09/15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAY KETCHAM — Signature: [signature] — Month Day Year: 04/10/15
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] — Signature: [signature] — Month Day Year: 5 6 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924

BILL OF LADING

FCI EPA ID NO. NJD054126164

S 505712

350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229

175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-1613

5533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732

108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367

132 Myrtle Beach Hwy.
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS	PHONE (AREA CODE)		
	TRACTOR	TRAILER	APPOINTMENT TIME :

FCI REP. LOADING (PRINT)	PROCEDURE	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT SHIPPER (MILITARY TIME ONLY) : ARRIVAL TIME : DEPARTURE TIME

COMMENTS OR DELAYS AT SHIPPER	EQUIPMENT USED

BROKER:

PO#: WO#:

MANIFEST / DOCUMENT NO. 007662553 JK

(X) HM		PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA / UN / NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
	1					6	DM	512	K		
	2										
	3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE	SHIPPER'S SIGNATURE	DATE LOADED
	X I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.	4/10/15 MO. DAY YR.

CONSIGNEE NAME/ADDRESS	PHONE (AREA CODE)		
	TRACTOR	TRAILER	APPOINTMENT TIME :

FCI REP. UNLOADING (PRINT)	PROCEDURE	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT CONSIGNEE (MILITARY TIME ONLY) : ARRIVAL TIME : DEPARTURE TIME

COMMENTS OR DELAYS AT CONSIGNEE	EQUIPMENT USED

PLEASE PRINT NAME/TITLE	CONSIGNEE SIGNATURE	DATE UNLOADED
	X	/ / MO. DAY YR.

AR H-0257	MD HWH-167 2001-OPV-2335	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	ME ME-HWT-47 ME-WOT-47	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203 DE-SW-203	MI UPW-0190713-OH	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
IL UPW-0190713-OH	MN UPW-0190713-OH	NJ S-2265 15939	PA PA-AH-0067	
MA MA-294		NY NJ-113	QUEBEC, CANADA QC-6ML-047	
			RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator

S 505712

ENVIRONMENTAL

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DID: 33320 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD084006477	1	CHIEF DISPATCHER 212-340-2050	014217576 JJK

GENERATOR

5. Generator's Name and Mailing Address
METRO NORTH RAILROAD
C/O ENVIRONMENTAL DEPT
525 NORTH BROADWAY
WHITE PLAINS, NY 10603
Generator's Phone: 914-461-0593 ATTN:GAIL SILKE

Generator's Site Address (if different than mailing address)
METRO NORTH - CROTON ON HUDSON
1 CROTON POINT AVENUE
CROTON ON HUDSON, NY 10520

6. Transporter 1 Company Name
FREEHOLD CARTAGE, INC
U.S. EPA ID Number
NJD054126164

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, LLC
1550 BALMER ROAD
PO BOX 200
MODEL CITY, NY 14107
Facility's Phone: 716 286 8231
U.S. EPA ID Number
NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ UN2315, POLYCHLORINATED BIPHENYLS, LIQUID, SOLUTION, 9, PG III	14	DM	8400	K	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.) OIL FROM OU-2 (NY297075) ERG#171
WTS# 58705 SEE ATTACHED CONTINUATION SHEET

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 06 | Day 01 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michael Brochu | Signature | Month 06 | Day 01 | Year 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924

BILL OF LADING

FCI EPA ID NO. NJD054126164

S531305

350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229

175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-1613

5533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732

108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367

132 Myrtle Beach Hwy.
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS	PHONE (AREA CODE)	TRACTOR	TRAILER	APPOINTMENT TIME
Metro North Croton-on-Hudson, NY		719	4869	10:00

FCI REP. LOADING (PRINT)	PROCEDURE	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT SHIPPER (MILITARY TIME ONLY)	
M Crochon	L/L			10:40 ARRIVAL TIME	12:30 DEPARTURE TIME

COMMENTS OR DELAYS AT SHIPPER

EQUIPMENT USED

BROKER:

PO#:

WO#: 1066732.01

MANIFEST / DOCUMENT NO. Set manifest

(X) HM		PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/IJN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
	1	014217576 JJK				14	DM	(55gal)			
	2										
	3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE	SHIPPER'S SIGNATURE	DATE LOADED
	X _____ I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.	6 / 1 / 15 MO. DAY YR.

CONSIGNEE NAME/ADDRESS	PHONE (AREA CODE)	TRACTOR	TRAILER	APPOINTMENT TIME
CWM Model City, NY				:

FCI REP. UNLOADING (PRINT)	PROCEDURE	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT CONSIGNEE (MILITARY TIME ONLY)	
				: ARRIVAL TIME	: DEPARTURE TIME

COMMENTS OR DELAYS AT CONSIGNEE

EQUIPMENT USED

PLEASE PRINT NAME/TITLE	CONSIGNEE SIGNATURE	DATE UNLOADED
	X _____	/ / MO. DAY YR.

AR H-0257	MD HWH-167 2001-OPV-2335	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	ME ME-HWT-47 ME-WOT-47	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203 DE-SW-203	MI UPW-0190713-OH	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
IL UPW-0190713-OH	MN UPW-0190713-OH	NJ S-2265 15939	PA PA-AH-0067	
MA MA-294		NY NJ-113	QUEBEC, CANADA QC-6ML-047	
			RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator

S531305

ATTACHMENT F

CHEMTECH LABORATORY REPORT
AND
CHAIN-OF-CUSTODY DOCUMENTATION
FOR
GROUNDWATER SAMPLES COLLECTED
MAY 19-20, 2015

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS

PROJECT NAME : MNR HARMON YARDS LOW-FLOW SAMPLES

DAY ENGINEERING, P.C.

1563 Lyell Avenue

Rochester, NY - 14606

Phone No: 5854540210

ORDER ID : G2353

ATTENTION : Raymond Kampff

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

Table Of Contents for G2353

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
VE1-2	G2353-01	8260-Low	8270D		8082A	6020	
VE1-4	G2353-02	8260-Low	8270D		8082A	6020	
VE2-1	G2353-03	8260-Low	8270D		8082A	6020	
VE3-1	G2353-04	8260-Low	8270D		8082A	6020	
VE4-11	G2353-05	8260-Low	8270D		8082A	6020	
DAY-1	G2353-08	8260-Low	8270D		8082A	6020	
FIELDBLANK	G2353-09	8260-Low	8270D		8082A	6020	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
G2353-01	Water	05/20/15	05/21/15	05/22/15	05/23/15
G2353-02	Water	05/20/15	05/21/15	05/22/15	05/23/15
G2353-03	Water	05/20/15	05/21/15	05/22/15	05/22/15
G2353-04	Water	05/19/15	05/21/15	05/22/15	05/23/15
G2353-05	Water	05/19/15	05/21/15	05/22/15	05/23/15
G2353-08	Water	05/19/15	05/21/15	05/22/15	05/23/15
G2353-09	Water	05/20/15	05/21/15	05/22/15	05/22/15

*** Details For Test :** SVOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
G2353-01	Water	05/20/15	05/21/15		05/26/15
G2353-02	Water	05/20/15	05/21/15		05/26/15
G2353-03	Water	05/20/15	05/21/15		05/26/15
G2353-04	Water	05/19/15	05/21/15		05/26/15
G2353-05	Water	05/19/15	05/21/15		05/26/15
G2353-08	Water	05/19/15	05/21/15		05/26/15
G2353-09	Water	05/20/15	05/21/15		05/26/15

*** Details For Test :** VOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIc

SAMPLE PREPARATION AND ANALYSIS SUMMARY PESTICIDE/PCB ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
G2353-01	Water	05/20/15	05/21/15	05/26/15	05/26/15
G2353-02	Water	05/20/15	05/21/15	05/26/15	05/26/15
G2353-03	Water	05/20/15	05/21/15	05/26/15	05/26/15
G2353-04	Water	05/19/15	05/21/15	05/26/15	05/27/15
G2353-05	Water	05/19/15	05/21/15	05/26/15	05/26/15
G2353-08	Water	05/19/15	05/21/15	05/26/15	05/26/15
G2353-09	Water	05/20/15	05/21/15	05/26/15	05/26/15

*** Details For Test :** PCB Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
G2353-01	Water	8260-Low	5030		
G2353-02	Water	8260-Low	5030		
G2353-03	Water	8260-Low	5030		
G2353-04	Water	8260-Low	5030		
G2353-05	Water	8260-Low	5030		
G2353-06	Water	8260-Low	5030		
G2353-07	Water	8260-Low	5030		
G2353-08	Water	8260-Low	5030		
G2353-09	Water	8260-Low	5030		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
G2353-01	Water	8270D	3510		
G2353-02	Water	8270D	3510		
G2353-03	Water	8270D	3510		
G2353-04	Water	8270D	3510		
G2353-05	Water	8270D	3510		
G2353-06	Water	8270D	3510		
G2353-07	Water	8270D	3510		
G2353-08	Water	8270D	3510		
G2353-09	Water	8270D	3510		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
G2353-01	Water	8082A	3510		
G2353-02	Water	8082A	3510		
G2353-03	Water	8082A	3510		
G2353-04	Water	8082A	3510		
G2353-05	Water	8082A	3510		
G2353-06	Water	8082A	3510		
G2353-07	Water	8082A	3510		
G2353-08	Water	8082A	3510		
G2353-09	Water	8082A	3510		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
G2353-01	WATER	Metals Group3	05/21/15	05/27/15	05/28/15
G2353-02	WATER	Metals Group3	05/21/15	05/27/15	05/28/15
G2353-03	WATER	Metals Group3	05/21/15	05/27/15	05/28/15
G2353-04	WATER	Metals Group3	05/21/15	05/27/15	05/28/15
G2353-05	WATER	Metals Group3	05/21/15	05/27/15	05/28/15
G2353-08	WATER	Metals Group3	05/21/15	05/27/15	05/28/15
G2353-09	WATER	Metals Group3	05/21/15	05/27/15	05/28/15

*** Details For Test :** Metals Group3

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : G2353

Project ID : MNR Harmon Yards Low-Flow Samples

Client : Day Engineering, P.C.

Lab Sample Number	Client Sample Number
G2353-01	VE1-2
G2353-02	VE1-4
G2353-03	VE2-1
G2353-04	VE3-1
G2353-05	VE4-11
G2353-06	G2353-05MS
G2353-07	G2353-05MSD
G2353-08	DAY-1
G2353-09	FIELDBLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

APPROVED
Date: 6/2/2015
By Mildred V Reyes, QA/QC Supervisor at 1:33 pm, Jun 09, 2015

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yards Low-Flow Samples
Project # N/A
Chemtech Project # G2353
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 05/21/2015.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group1 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD recoveries met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature__ Mildred V Reyes

APPROVED
By Mildred V Reyes, QA/QC Supervisor at 1:33 pm, Jun 09, 2015

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yards Low-Flow Samples
Project # N/A
Chemtech Project # G2353
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 05/21/2015.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column RTX-5 which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_G using GC Column RXI-5 SILMS which is 30 meters, 0.25 mm ID, 0.50 um df, Catalog # 13638-124.The analysis of SVOCMS Group1 was based on method 8270D and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD recoveries met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signatur Mildred V Reyes

APPROVED
By Mildred V Reyes, QA/QC Supervisor at 1:33 pm, Jun 09, 2015

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yards Low-Flow Samples
Project # N/A
Chemtech Project # G2353
Test Name: PCB Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 05/21/2015.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for PCB Group1.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of PCB Group1s was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for VE3-1 [Decachlorobiphenyl(2) - 35%]. As per Method per column one surrogate is allowed to fail. No further corrective action was taken.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD recoveries met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature Mildred V Reyes

APPROVED

By Mildred V Reyes, QA/QC Supervisor at 1:33 pm, Jun 09, 2015

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yards Low-Flow Samples
Project # N/A
Chemtech Project # G2353
Test Name: Metals Group3

A. Number of Samples and Date of Receipt:
9 Water samples were received on 05/21/2015.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for Metals Group3.

C. Analytical Techniques:
The analysis of Metals Group3 was based on method 6020 and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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Signature__ Mildred V Reyes

APPROVED
By Mildred V Reyes, QA/QC Supervisor at 1:33 pm, Jun 09, 2015

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LAB CHRONICLE

OrderID:	G2353	**OrderDate:**	5/21/2015 3:04:05 PM
Client:	Day Engineering, P.C.	**Project:**	MNR Harmon Yards Low-Flow Samples
Contact:	Raymond Kampff	**Location:**	F52

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
G2353-01	**VE1-2**	**Water**			**05/20/15**			**05/21/15**
			VOCMS Group1	8260-Low			05/26/15	
G2353-02	**VE1-4**	**Water**			**05/20/15**			**05/21/15**
			VOCMS Group1	8260-Low			05/26/15	
G2353-03	**VE2-1**	**Water**			**05/20/15**			**05/21/15**
			VOCMS Group1	8260-Low			05/26/15	
G2353-04	**VE3-1**	**Water**			**05/19/15**			**05/21/15**
			VOCMS Group1	8260-Low			05/26/15	
G2353-05	**VE4-11**	**Water**			**05/19/15**			**05/21/15**
			VOCMS Group1	8260-Low			05/26/15	
G2353-08	**DAY-1**	**Water**			**05/19/15**			**05/21/15**
			VOCMS Group1	8260-Low			05/26/15	
G2353-09	**FIELDBLANK**	**Water**			**05/20/15**			**05/21/15**
			VOCMS Group1	8260-Low			05/26/15	

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Hit Summary Sheet
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**VE3-1**								
G2353-04	VE3-1	Water	Toluene	0.77	J	0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	Chlorobenzene	2.70		0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	Ethyl Benzene	0.40	J	0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	m/p-Xylenes	0.56	J	0.4	0.4	2	ug/L
G2353-04	VE3-1	Water	o-Xylene	0.97	J	0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	n-propylbenzene	0.42	J	0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	1,3,5-Trimethylbenzene	1.70		0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	1,2,4-Trimethylbenzene	3.60		0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	p-Isopropyltoluene	0.79	J	0.2	0.2	1	ug/L
G2353-04	VE3-1	Water	Naphthalene	9.00		0.2	0.2	1	ug/L
			Total Voc :	20.91					
			Total Concentration:	20.91					
Client ID:	**DAY-1**								
G2353-08	DAY-1	Water	Benzene	0.53	J	0.2	0.2	1	ug/L
G2353-08	DAY-1	Water	Toluene	0.40	J	0.2	0.2	1	ug/L
G2353-08	DAY-1	Water	Ethyl Benzene	0.27	J	0.2	0.2	1	ug/L
G2353-08	DAY-1	Water	o-Xylene	0.48	J	0.2	0.2	1	ug/L
G2353-08	DAY-1	Water	n-propylbenzene	0.37	J	0.2	0.2	1	ug/L
G2353-08	DAY-1	Water	1,2,4-Trimethylbenzene	0.43	J	0.2	0.2	1	ug/L
G2353-08	DAY-1	Water	Naphthalene	2.00		0.2	0.2	1	ug/L
			Total Voc :	4.48					
			Total Concentration:	4.48					

SAMPLE DATA

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-2	SDG No.:	G2353
Lab Sample ID:	G2353-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024398.D	1		05/26/15 16:33	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.8		61 - 141		102%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	50.7		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	60.2		58 - 135		120%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	644321	7.87				
540-36-3	1,4-Difluorobenzene	1228750	8.78				
3114-55-4	Chlorobenzene-d5	1371040	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	640827	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-2	SDG No.:	G2353
Lab Sample ID:	G2353-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024398.D	1		05/26/15 16:33	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-4	SDG No.:	G2353
Lab Sample ID:	G2353-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024399.D	1		05/26/15 17:01	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.1		61 - 141		106%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	51.1		65 - 126		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	61.4		58 - 135		123%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	619942	7.87				
540-36-3	1,4-Difluorobenzene	1185970	8.79				
3114-55-4	Chlorobenzene-d5	1345970	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	646742	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-4	SDG No.:	G2353
Lab Sample ID:	G2353-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024399.D	1		05/26/15 17:01	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE2-1	SDG No.:	G2353
Lab Sample ID:	G2353-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024400.D	1		05/26/15 17:29	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		61 - 141		108%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		69 - 133		97%	SPK: 50
2037-26-5	Toluene-d8	50.6		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	61.6		58 - 135		123%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	603154	7.87				
540-36-3	1,4-Difluorobenzene	1161260	8.79				
3114-55-4	Chlorobenzene-d5	1320990	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	627951	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE2-1	SDG No.:	G2353
Lab Sample ID:	G2353-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024400.D	1		05/26/15 17:29	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE3-1	SDG No.:	G2353
Lab Sample ID:	G2353-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024406.D	1		05/26/15 20:18	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	0.77	J	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	2.7		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.4	J	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.56	J	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.97	J	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	0.42	J	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.7		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.6		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	0.79	J	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	9		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.4		61 - 141		107%	SPK: 50
1868-53-7	Dibromofluoromethane	47		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	50.9		65 - 126		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	65.4		58 - 135		131%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	631166	7.89				
540-36-3	1,4-Difluorobenzene	1248240	8.8				
3114-55-4	Chlorobenzene-d5	1437700	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	762643	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE3-1	SDG No.:	G2353
Lab Sample ID:	G2353-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024406.D	1		05/26/15 20:18	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11	SDG No.:	G2353
Lab Sample ID:	G2353-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024401.D	1		05/26/15 17:57	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55		61 - 141		110%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	50.1		65 - 126		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	61.4		58 - 135		123%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	598188	7.87				
540-36-3	1,4-Difluorobenzene	1198360	8.79				
3114-55-4	Chlorobenzene-d5	1337540	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	636928	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11	SDG No.:	G2353
Lab Sample ID:	G2353-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024401.D	1		05/26/15 17:57	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	DAY-1	SDG No.:	G2353
Lab Sample ID:	G2353-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024405.D	1		05/26/15 19:49	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	0.53	J	0.2	0.2	1	ug/L
108-88-3	Toluene	0.4	J	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.27	J	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.48	J	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	0.37	J	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.43	J	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	2		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.1		61 - 141		108%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	50.8		65 - 126		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	64.6		58 - 135		129%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	629079	7.86				
540-36-3	1,4-Difluorobenzene	1244740	8.78				
3114-55-4	Chlorobenzene-d5	1434350	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	707032	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	DAY-1	SDG No.:	G2353
Lab Sample ID:	G2353-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024405.D	1		05/26/15 19:49	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	FIELDBLANK	SDG No.:	G2353
Lab Sample ID:	G2353-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024397.D	1		05/26/15 16:06	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.2		61 - 141		100%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		69 - 133		92%	SPK: 50
2037-26-5	Toluene-d8	49.4		65 - 126		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.5		58 - 135		115%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	609198	7.87				
540-36-3	1,4-Difluorobenzene	1150280	8.79				
3114-55-4	Chlorobenzene-d5	1260400	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	579431	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	FIELDBLANK	SDG No.:	G2353
Lab Sample ID:	G2353-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024397.D	1		05/26/15 16:06	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

QC SUMMARY

Surrogate Summary

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
G2353-01	VE1-2	1,2-Dichloroethane-d4	50	50.79	102	61	141
		Dibromofluoromethane	50	46.83	94	69	133
		Toluene-d8	50	50.67	101	65	126
		4-Bromofluorobenzene	50	60.22	120	58	135
G2353-02	VE1-4	1,2-Dichloroethane-d4	50	53.06	106	61	141
		Dibromofluoromethane	50	47.87	96	69	133
		Toluene-d8	50	51.06	102	65	126
		4-Bromofluorobenzene	50	61.44	123	58	135
G2353-03	VE2-1	1,2-Dichloroethane-d4	50	54.22	108	61	141
		Dibromofluoromethane	50	48.47	97	69	133
		Toluene-d8	50	50.62	101	65	126
		4-Bromofluorobenzene	50	61.63	123	58	135
G2353-04	VE3-1	1,2-Dichloroethane-d4	50	53.38	107	61	141
		Dibromofluoromethane	50	46.99	94	69	133
		Toluene-d8	50	50.91	102	65	126
		4-Bromofluorobenzene	50	65.38	131	58	135
G2353-05	VE4-11	1,2-Dichloroethane-d4	50	54.98	110	61	141
		Dibromofluoromethane	50	47.25	94	69	133
		Toluene-d8	50	50.07	100	65	126
		4-Bromofluorobenzene	50	61.4	123	58	135
G2353-06MS	VE4-11MS	1,2-Dichloroethane-d4	50	52.44	105	61	141
		Dibromofluoromethane	50	47.61	95	69	133
		Toluene-d8	50	48.35	97	65	126
		4-Bromofluorobenzene	50	48.69	97	58	135
G2353-07MSD	VE4-11MSD	1,2-Dichloroethane-d4	50	54.11	108	61	141
		Dibromofluoromethane	50	49.18	98	69	133
		Toluene-d8	50	50.7	101	65	126
		4-Bromofluorobenzene	50	50.21	100	58	135
G2353-08	DAY-1	1,2-Dichloroethane-d4	50	54.11	108	61	141
		Dibromofluoromethane	50	47.19	94	69	133
		Toluene-d8	50	50.81	102	65	126
		4-Bromofluorobenzene	50	64.59	129	58	135
G2353-09	FIELDBLANK	1,2-Dichloroethane-d4	50	50.19	100	61	141
		Dibromofluoromethane	50	46.1	92	69	133
		Toluene-d8	50	49.41	99	65	126
		4-Bromofluorobenzene	50	57.48	115	58	135
VN0526WBL01	VN0526WBL01	1,2-Dichloroethane-d4	50	50.99	102	61	141
		Dibromofluoromethane	50	46.73	93	69	133
		Toluene-d8	50	50.13	100	65	126
		4-Bromofluorobenzene	50	57.69	115	58	135
VN0526WBS01	VN0526WBS01	1,2-Dichloroethane-d4	50	55.78	112	61	141
		Dibromofluoromethane	50	50.42	101	69	133
		Toluene-d8	50	50.69	101	65	126
		4-Bromofluorobenzene	50	49.23	98	58	135

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : G2353-06MS		**Client Sample ID : VE4-11MS**							**Datafile :** VN024407.D		
Methyl tert-butyl Ether	50	0	57	ug/L	114				60	145	
Benzene	50	0	50.9	ug/L	102				62	134	
Toluene	50	0	50.6	ug/L	101				68	129	
Chlorobenzene	50	0	49	ug/L	98				68	126	
Ethyl Benzene	50	0	50.3	ug/L	101				61	131	
m/p-Xylenes	100	0	98.9	ug/L	99				64	125	
o-Xylene	50	0	51.8	ug/L	104				65	126	
Isopropylbenzene	50	0	42.3	ug/L	85				58	132	
N-propylbenzene	50	0	42.3	ug/L	85				64	126	
1,3,5-Trimethylbenzene	50	0	42	ug/L	84				59	127	
tert-Butylbenzene	50	0	42.7	ug/L	85				65	138	
1,2,4-Trimethylbenzene	50	0	42.5	ug/L	85				54	133	
Sec-butylbenzene	50	0	42.5	ug/L	85				65	125	
p-Isopropyltoluene	50	0	42	ug/L	84				64	124	
n-Butylbenzene	50	0	42.1	ug/L	84				62	127	
Naphthalene	50	0	55	ug/L	110				56	136	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : G2353-07MSD	**Client Sample ID :** VE4-11MSD							**Datafile :** VN024408.D			
Methyl tert-butyl Ether	50	0	58.8	ug/L	118		3		60	145	20
Benzene	50	0	52.5	ug/L	105		3		62	134	20
Toluene	50	0	51.5	ug/L	103		2		68	129	20
Chlorobenzene	50	0	49.7	ug/L	99		1		68	126	20
Ethyl Benzene	50	0	51.2	ug/L	102		2		61	131	20
m/p-Xylenes	100	0	100	ug/L	100		1		64	125	20
o-Xylene	50	0	52.3	ug/L	105		1		65	126	20
Isopropylbenzene	50	0	49.6	ug/L	99		16		58	132	20
N-propylbenzene	50	0	49.2	ug/L	98		15		64	126	20
1,3,5-Trimethylbenzene	50	0	49.6	ug/L	99		17		59	127	20
tert-Butylbenzene	50	0	49.8	ug/L	100		15		65	138	20
1,2,4-Trimethylbenzene	50	0	49.2	ug/L	98		15		54	133	20
Sec-butylbenzene	50	0	48.6	ug/L	97		13		65	125	20
p-Isopropyltoluene	50	0	49.3	ug/L	99		16		64	124	20
n-Butylbenzene	50	0	48.2	ug/L	96		14		62	127	20
Naphthalene	50	0	64.8	ug/L	130		16		56	136	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: SW8260-Low **Datafile :** VN024390.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0526WBS01	Methyl tert-butyl Ether	20	23.1	ug/L	116			72	136	
	Benzene	20	21.4	ug/L	107			75	125	
	Toluene	20	20.6	ug/L	103			74	125	
	Chlorobenzene	20	20.5	ug/L	103			76	123	
	Ethyl Benzene	20	20.9	ug/L	104			75	126	
	m/p-Xylenes	40	41.1	ug/L	103			74	126	
	o-Xylene	20	21.4	ug/L	107			73	127	
	Isopropylbenzene	20	20.7	ug/L	104			70	127	
	N-propylbenzene	20	20.6	ug/L	103			71	126	
	1,3,5-Trimethylbenzene	20	20.5	ug/L	103			71	127	
	tert-Butylbenzene	20	20.6	ug/L	103			66	129	
	1,2,4-Trimethylbenzene	20	20.7	ug/L	104			69	130	
	Sec-butylbenzene	20	20.6	ug/L	103			72	126	
	p-Isopropyltoluene	20	20.2	ug/L	101			71	125	
	n-Butylbenzene	20	19.7	ug/L	99			68	128	
	Naphthalene	20	22.1	ug/L	111			62	130	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0526WBL01

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

Lab File ID: VN024389.D Lab Sample ID: VN0526WBL01

Date Analyzed: 05/26/2015 Time Analyzed: 11:49

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0526WBS01	VN0526WBS01	VN024390.D	05/26/2015
FIELDBLANK	G2353-09	VN024397.D	05/26/2015
VE1-2	G2353-01	VN024398.D	05/26/2015
VE1-4	G2353-02	VN024399.D	05/26/2015
VE2-1	G2353-03	VN024400.D	05/26/2015
VE4-11	G2353-05	VN024401.D	05/26/2015
DAY-1	G2353-08	VN024405.D	05/26/2015
VE3-1	G2353-04	VN024406.D	05/26/2015
VE4-11MS	G2353-06MS	VN024407.D	05/26/2015
VE4-11MSD	G2353-07MSD	VN024408.D	05/26/2015

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

Lab File ID: VN024344.D BFB Injection Date: 05/22/2015

Instrument ID: MSVOA_N BFB Injection Time: 10:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.2
75	30.0 - 60.0% of mass 95	51.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	73.7 (97.8) 1
177	5.0 - 9.0% of mass 176	5.1 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN024345.D	05/22/2015	11:13
VSTDICC005	VSTDICC005	VN024346.D	05/22/2015	11:40
VSTDICC020	VSTDICC020	VN024347.D	05/22/2015	12:13
VSTDICCC050	VSTDICCC050	VN024348.D	05/22/2015	12:41
VSTDICC100	VSTDICC100	VN024349.D	05/22/2015	13:11
VSTDICC200	VSTDICC200	VN024350.D	05/22/2015	13:38

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

Lab File ID: VN024387.D BFB Injection Date: 05/26/2015

Instrument ID: MSVOA_N BFB Injection Time: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	77.3
175	5.0 - 9.0% of mass 174	6 (7.8) 1
176	95.0 - 101.0% of mass 174	75.1 (97.2) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN024388.D	05/26/2015	10:46
VN0526WBL01	VN0526WBL01	VN024389.D	05/26/2015	11:49
VN0526WBS01	VN0526WBS01	VN024390.D	05/26/2015	12:50
FIELDBLANK	G2353-09	VN024397.D	05/26/2015	16:06
VE1-2	G2353-01	VN024398.D	05/26/2015	16:33
VE1-4	G2353-02	VN024399.D	05/26/2015	17:01
VE2-1	G2353-03	VN024400.D	05/26/2015	17:29
VE4-11	G2353-05	VN024401.D	05/26/2015	17:57
DAY-1	G2353-08	VN024405.D	05/26/2015	19:49
VE3-1	G2353-04	VN024406.D	05/26/2015	20:18
VE4-11MS	G2353-06MS	VN024407.D	05/26/2015	20:46
VE4-11MSD	G2353-07MSD	VN024408.D	05/26/2015	21:13

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

Lab File ID: VN024388.D Date Analyzed: 05/26/2015

Instrument ID: MSVOA_N Time Analyzed: 10:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	741674	7.87	1265840	8.78	1152880	11.61
UPPER LIMIT	1483350	8.37	2531690	9.28	2305750	12.11
LOWER LIMIT	370837	7.37	632922	8.28	576438	11.11
EPA SAMPLE NO.						
VE1-2	644321	7.87	1228746	8.78	1371043	11.61
VE1-4	619942	7.87	1185972	8.79	1345968	11.61
VE2-1	603154	7.87	1161256	8.79	1320985	11.61
VE3-1	631166	7.89	1248235	8.80	1437698	11.61
VE4-11	598188	7.87	1198356	8.79	1337539	11.61
VE4-11MS	660291	7.87	1196824	8.79	1106158	11.61
VE4-11MSD	702157	7.87	1255985	8.79	1154219	11.61
DAY-1	629079	7.86	1244743	8.78	1434352	11.61
FIELDBLANK	609198	7.87	1150281	8.79	1260403	11.61
VN0526WBL01	610444	7.87	1164075	8.79	1265725	11.61
VN0526WBS01	673896	7.87	1196786	8.79	1081529	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

Lab File ID: VN024388.D Date Analyzed: 05/26/2015

Instrument ID: MSVOA_N Time Analyzed: 10:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	531536	13.56				
UPPER LIMIT	1063070	14.06				
LOWER LIMIT	265768	13.06				
EPA SAMPLE NO.						
VE1-2	640827	13.56				
VE1-4	646742	13.56				
VE2-1	627951	13.56				
VE3-1	762643	13.56				
VE4-11	636928	13.56				
VE4-11MS	586979	13.56				
VE4-11MSD	533552	13.56				
DAY-1	707032	13.56				
FIELDBLANK	579431	13.56				
VN0526WBL01	579851	13.56				
VN0526WBS01	484142	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	VN0526WBL01	SDG No.:	G2353
Lab Sample ID:	VN0526WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024389.D	1		05/26/15 11:49	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	1	U	0.35	0.5	1	ug/L
71-43-2	Benzene	1	U	0.2	0.2	1	ug/L
108-88-3	Toluene	1	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	1	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	1	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	2	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	1	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	1	U	0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	1	U	0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	1	U	0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	U	0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	1	U	0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	1	U	0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	1	U	0.2	0.2	1	ug/L
91-20-3	Naphthalene	1	U	0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51		61 - 141		102%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		69 - 133		93%	SPK: 50
2037-26-5	Toluene-d8	50.1		65 - 126		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.7		58 - 135		115%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	610444	7.87				
540-36-3	1,4-Difluorobenzene	1164080	8.79				
3114-55-4	Chlorobenzene-d5	1265730	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	579851	13.56				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	VN0526WBL01	SDG No.:	G2353
Lab Sample ID:	VN0526WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024389.D	1		05/26/15 11:49	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	VN0526WBS01	SDG No.:	G2353
Lab Sample ID:	VN0526WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024390.D	1		05/26/15 12:50	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	23.1		0.35	0.5	1	ug/L
71-43-2	Benzene	21.4		0.2	0.2	1	ug/L
108-88-3	Toluene	20.6		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	20.5		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	20.9		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	41.1		0.4	0.4	2	ug/L
95-47-6	o-Xylene	21.4		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	20.7		0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	20.6		0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.5		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	20.6		0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.7		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	20.6		0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	20.2		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	19.7		0.2	0.2	1	ug/L
91-20-3	Naphthalene	22.1		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.8		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		69 - 133		101%	SPK: 50
2037-26-5	Toluene-d8	50.7		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		58 - 135		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	673896	7.87				
540-36-3	1,4-Difluorobenzene	1196790	8.79				
3114-55-4	Chlorobenzene-d5	1081530	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	484142	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	VN0526WBS01	SDG No.:	G2353
Lab Sample ID:	VN0526WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024390.D	1		05/26/15 12:50	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MS	SDG No.:	G2353
Lab Sample ID:	G2353-06MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024407.D	1		05/26/15 20:46	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	57		0.35	0.5	1	ug/L
71-43-2	Benzene	50.9		0.2	0.2	1	ug/L
108-88-3	Toluene	50.6		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	49		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	50.3		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	98.9		0.4	0.4	2	ug/L
95-47-6	o-Xylene	51.8		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	42.3		0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	42.3		0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	42		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	42.7		0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	42.5		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	42.5		0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	42		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	42.1		0.2	0.2	1	ug/L
91-20-3	Naphthalene	55		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.4		61 - 141		105%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.4		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	660291	7.87				
540-36-3	1,4-Difluorobenzene	1196820	8.79				
3114-55-4	Chlorobenzene-d5	1106160	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	586979	13.56				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MS	SDG No.:	G2353
Lab Sample ID:	G2353-06MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024407.D	1		05/26/15 20:46	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MSD	SDG No.:	G2353
Lab Sample ID:	G2353-07MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024408.D	1		05/26/15 21:13	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	58.8		0.35	0.5	1	ug/L
71-43-2	Benzene	52.5		0.2	0.2	1	ug/L
108-88-3	Toluene	51.5		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	49.7		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	51.2		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	100		0.4	0.4	2	ug/L
95-47-6	o-Xylene	52.3		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	49.6		0.2	0.2	1	ug/L
103-65-1	n-propylbenzene	49.2		0.2	0.2	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	49.6		0.2	0.2	1	ug/L
98-06-6	tert-Butylbenzene	49.8		0.2	0.2	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	49.2		0.2	0.2	1	ug/L
135-98-8	sec-Butylbenzene	48.6		0.2	0.2	1	ug/L
99-87-6	p-Isopropyltoluene	49.3		0.2	0.2	1	ug/L
104-51-8	n-Butylbenzene	48.2		0.2	0.2	1	ug/L
91-20-3	Naphthalene	64.8		0.2	0.2	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.1		61 - 141		108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		69 - 133		98%	SPK: 50
2037-26-5	Toluene-d8	50.7		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		58 - 135		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	702157	7.87				
540-36-3	1,4-Difluorobenzene	1255990	8.79				
3114-55-4	Chlorobenzene-d5	1154220	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	533552	13.56				

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MSD	SDG No.:	G2353
Lab Sample ID:	G2353-07MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN024408.D	1		05/26/15 21:13	VN052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG No.: G2353

Instrument ID: MSVOA_N Calibration Date(s): 05/22/2015 05/22/2015

Heated Purge: (Y/N) N Calibration Time(s): 11:13 13:38

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN024345.D RRF005 = VN024346.D RRF020 = VN024347.D
RRF050 = VN024348.D RRF100 = VN024349.D RRF200 = VN024350.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.695	1.788	1.604	1.797	1.751	1.847	1.747	5
Benzene	1.547	1.574	1.420	1.539	1.509	1.538	1.521	3.5
Toluene	0.881	0.960	0.890	0.930	0.932	0.949	0.924	3.4
Chlorobenzene	1.190	1.154	1.020	1.052	1.060	1.083	1.093	6
Ethyl Benzene	1.941	1.927	1.803	1.899	1.928	1.966	1.911	3
m/p-Xylenes	0.697	0.710	0.668	0.691	0.707	0.722	0.699	2.7
o-Xylene	0.626	0.681	0.641	0.675	0.688	0.705	0.669	4.5
Isopropylbenzene	4.103	4.090	3.797	4.036	4.000	4.143	4.028	3.1
n-propylbenzene	4.711	4.814	4.595	4.767	4.814	4.962	4.777	2.6
1,3,5-Trimethylbenzene	3.244	3.440	3.117	3.217	3.220	3.311	3.258	3.3
tert-Butylbenzene	2.573	2.782	2.516	2.709	2.724	2.803	2.684	4.3
1,2,4-Trimethylbenzene	3.294	3.547	3.115	3.289	3.283	3.372	3.317	4.2
sec-Butylbenzene	3.760	4.056	3.761	3.947	4.007	4.126	3.943	3.9
p-Isopropyltoluene	3.059	3.419	3.125	3.241	3.339	3.406	3.265	4.6
n-Butylbenzene	3.342	3.182	2.890	3.046	3.142	3.202	3.134	4.9
Naphthalene	2.355	2.039	2.248	2.661	2.743	2.894	2.490	13.2
1,2-Dichloroethane-d4		0.710	0.770	0.750	0.705	0.735	0.734	3.7
Dibromofluoromethane		0.295	0.329	0.320	0.308	0.310	0.312	4.1
Toluene-d8		1.162	1.391	1.330	1.298	1.307	1.298	6.5
4-Bromofluorobenzene		0.433	0.479	0.460	0.465	0.467	0.461	3.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG No.: G2353

Instrument ID: MSVOA_N Calibration Date/Time: 05/26/2015 10:46

Lab File ID: VN024388.D Init. Calib. Date(s): 05/22/2015 05/22/2015

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:13 13:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.747	1.916		9.67	20
Benzene	1.521	1.571		3.29	20
Toluene	0.924	0.960		3.9	20
Chlorobenzene	1.093	1.089	0.3	-0.37	20
Ethyl Benzene	1.911	2.000		4.66	20
m/p-Xylenes	0.699	0.728		4.15	20
o-Xylene	0.669	0.719		7.47	20
Isopropylbenzene	4.028	4.132		2.58	20
n-propylbenzene	4.777	4.992		4.5	20
1,3,5-Trimethylbenzene	3.258	3.317		1.81	20
tert-Butylbenzene	2.684	2.748		2.38	20
1,2,4-Trimethylbenzene	3.317	3.368		1.54	20
sec-Butylbenzene	3.943	4.114		4.31	20
p-Isopropyltoluene	3.265	3.389		3.8	20
n-Butylbenzene	3.134	3.267		4.24	20
Naphthalene	2.490	2.741		10.08	20
1,2-Dichloroethane-d4	0.734	0.774		5.45	20
Dibromofluoromethane	0.312	0.311		-0.32	20
Toluene-d8	1.298	1.345		3.62	20
4-Bromofluorobenzene	0.461	0.481		4.34	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	G2353	**OrderDate:**	5/21/2015 3:04:05 PM
Client:	Day Engineering, P.C.	**Project:**	MNR Harmon Yards Low-Flow Samples
Contact:	Raymond Kampff	**Location:**	F52

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
G2353-01	**VE1-2**	**Water**			**05/20/15**			**05/21/15**
			SVOCMS Group1	8270D		05/22/15	05/23/15	
G2353-02	**VE1-4**	**Water**			**05/20/15**			**05/21/15**
			SVOCMS Group1	8270D		05/22/15	05/23/15	
G2353-03	**VE2-1**	**Water**			**05/20/15**			**05/21/15**
			SVOCMS Group1	8270D		05/22/15	05/22/15	
G2353-04	**VE3-1**	**Water**			**05/19/15**			**05/21/15**
			SVOCMS Group1	8270D		05/22/15	05/23/15	
G2353-05	**VE4-11**	**Water**			**05/19/15**			**05/21/15**
			SVOCMS Group1	8270D		05/22/15	05/23/15	
G2353-08	**DAY-1**	**Water**			**05/19/15**			**05/21/15**
			SVOCMS Group1	8270D		05/22/15	05/23/15	
G2353-09	**FIELDBLANK**	**Water**			**05/20/15**			**05/21/15**
			SVOCMS Group1	8270D		05/22/15	05/22/15	

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Hit Summary Sheet
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : VE3-1									
G2353-04	VE3-1	WATER	Acenaphthene	3.600	J	0.21	1	10	ug/L
G2353-04	VE3-1	WATER	Fluorene	3.200	J	0.31	1	10	ug/L
G2353-04	VE3-1	WATER	Phenanthrene	2.600	J	0.26	1	10	ug/L
			Total Svoc :		**9.40**				
			Total Concentration:		**9.40**				
Client ID : DAY-1									
G2353-08	DAY-1	WATER	Acenaphthene	2.500	J	0.21	1	10.2	ug/L
G2353-08	DAY-1	WATER	Fluorene	3.300	J	0.32	1	10.2	ug/L
			Total Svoc :		**5.80**				
			Total Concentration:		**5.80**				

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-2	SDG No.:	G2353
Lab Sample ID:	G2353-01	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017270.D	1	05/22/15 12:18	05/23/15 07:22	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.1	U	0.32	1	10.1	ug/L
208-96-8	Acenaphthylene	10.1	U	0.71	1	10.1	ug/L
83-32-9	Acenaphthene	10.1	U	0.21	1	10.1	ug/L
86-73-7	Fluorene	10.1	U	0.31	1	10.1	ug/L
85-01-8	Phenanthrene	10.1	U	0.26	1	10.1	ug/L
120-12-7	Anthracene	10.1	U	0.16	1	10.1	ug/L
206-44-0	Fluoranthene	10.1	U	0.4	1	10.1	ug/L
129-00-0	Pyrene	10.1	U	0.2	1	10.1	ug/L
56-55-3	Benzo(a)anthracene	10.1	U	0.16	1	10.1	ug/L
218-01-9	Chrysene	10.1	U	0.18	1	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	10.1	U	0.29	1	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	10.1	U	0.18	1	10.1	ug/L
50-32-8	Benzo(a)pyrene	10.1	U	0.14	1	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.1	U	0.15	1	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.1	U	0.42	1	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	10.1	U	0.29	1	10.1	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	85.5		36 - 131		85%	SPK: 100
321-60-8	2-Fluorobiphenyl	91		39 - 131		91%	SPK: 100
1718-51-0	Terphenyl-d14	72.7		23 - 130		73%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	35508	7.68				
1146-65-2	Naphthalene-d8	150822	10.47				
15067-26-2	Acenaphthene-d10	87198	14.33				
1517-22-2	Phenanthrene-d10	183123	17.08				
1719-03-5	Chrysene-d12	200961	21.27				
1520-96-3	Perylene-d12	191563	23.52				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-2	SDG No.:	G2353
Lab Sample ID:	G2353-01	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017270.D	1	05/22/15 12:18	05/23/15 07:22	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-4	SDG No.:	G2353
Lab Sample ID:	G2353-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017271.D	1	05/22/15 12:18	05/23/15 07:57	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.2	U	0.33	1	10.2	ug/L
208-96-8	Acenaphthylene	10.2	U	0.71	1	10.2	ug/L
83-32-9	Acenaphthene	10.2	U	0.21	1	10.2	ug/L
86-73-7	Fluorene	10.2	U	0.32	1	10.2	ug/L
85-01-8	Phenanthrene	10.2	U	0.27	1	10.2	ug/L
120-12-7	Anthracene	10.2	U	0.16	1	10.2	ug/L
206-44-0	Fluoranthene	10.2	U	0.41	1	10.2	ug/L
129-00-0	Pyrene	10.2	U	0.2	1	10.2	ug/L
56-55-3	Benzo(a)anthracene	10.2	U	0.16	1	10.2	ug/L
218-01-9	Chrysene	10.2	U	0.18	1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	10.2	U	0.3	1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	10.2	U	0.18	1	10.2	ug/L
50-32-8	Benzo(a)pyrene	10.2	U	0.14	1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.2	U	0.15	1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.2	U	0.43	1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	10.2	U	0.3	1	10.2	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	86.2		36 - 131		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.9		39 - 131		90%	SPK: 100
1718-51-0	Terphenyl-d14	69.8		23 - 130		70%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	32302	7.68				
1146-65-2	Naphthalene-d8	135776	10.47				
15067-26-2	Acenaphthene-d10	80446	14.33				
1517-22-2	Phenanthrene-d10	167224	17.08				
1719-03-5	Chrysene-d12	184650	21.27				
1520-96-3	Perylene-d12	185259	23.52				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-4	SDG No.:	G2353
Lab Sample ID:	G2353-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017271.D	1	05/22/15 12:18	05/23/15 07:57	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE2-1	SDG No.:	G2353
Lab Sample ID:	G2353-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF079441.D	1	05/22/15 12:18	05/22/15 19:03	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.1	U	0.32	1	10.1	ug/L
208-96-8	Acenaphthylene	10.1	U	0.71	1	10.1	ug/L
83-32-9	Acenaphthene	10.1	U	0.21	1	10.1	ug/L
86-73-7	Fluorene	10.1	U	0.31	1	10.1	ug/L
85-01-8	Phenanthrene	10.1	U	0.26	1	10.1	ug/L
120-12-7	Anthracene	10.1	U	0.16	1	10.1	ug/L
206-44-0	Fluoranthene	10.1	U	0.4	1	10.1	ug/L
129-00-0	Pyrene	10.1	U	0.2	1	10.1	ug/L
56-55-3	Benzo(a)anthracene	10.1	U	0.16	1	10.1	ug/L
218-01-9	Chrysene	10.1	U	0.18	1	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	10.1	U	0.29	1	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	10.1	U	0.18	1	10.1	ug/L
50-32-8	Benzo(a)pyrene	10.1	U	0.14	1	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.1	U	0.15	1	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.1	U	0.42	1	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	10.1	U	0.29	1	10.1	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	91.4		36 - 131		91%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.8		39 - 131		94%	SPK: 100
1718-51-0	Terphenyl-d14	84.2		23 - 130		84%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	65648	7.05				
1146-65-2	Naphthalene-d8	269874	8.63				
15067-26-2	Acenaphthene-d10	130895	10.8				
1517-22-2	Phenanthrene-d10	249525	12.63				
1719-03-5	Chrysene-d12	235286	15.91				
1520-96-3	Perylene-d12	239725	17.65				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE2-1	SDG No.:	G2353
Lab Sample ID:	G2353-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF079441.D	1	05/22/15 12:18	05/22/15 19:03	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE3-1	SDG No.:	G2353
Lab Sample ID:	G2353-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017259.D	1	05/22/15 12:18	05/23/15 01:01	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10	U	0.32	1	10	ug/L
208-96-8	Acenaphthylene	10	U	0.7	1	10	ug/L
83-32-9	Acenaphthene	3.6	J	0.21	1	10	ug/L
86-73-7	Fluorene	3.2	J	0.31	1	10	ug/L
85-01-8	Phenanthrene	2.6	J	0.26	1	10	ug/L
120-12-7	Anthracene	10	U	0.16	1	10	ug/L
206-44-0	Fluoranthene	10	U	0.4	1	10	ug/L
129-00-0	Pyrene	10	U	0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	10	U	0.16	1	10	ug/L
218-01-9	Chrysene	10	U	0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	10	U	0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	10	U	0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	10	U	0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	10	U	0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	10	U	0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	74.7		36 - 131		75%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.8		39 - 131		72%	SPK: 100
1718-51-0	Terphenyl-d14	67.3		23 - 130		67%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	37836	7.68				
1146-65-2	Naphthalene-d8	149496	10.47				
15067-26-2	Acenaphthene-d10	98677	14.34				
1517-22-2	Phenanthrene-d10	203649	17.09				
1719-03-5	Chrysene-d12	201169	21.27				
1520-96-3	Perylene-d12	199770	23.52				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE3-1	SDG No.:	G2353
Lab Sample ID:	G2353-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017259.D	1	05/22/15 12:18	05/23/15 01:01	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11	SDG No.:	G2353
Lab Sample ID:	G2353-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017260.D	1	05/22/15 12:18	05/23/15 01:36	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.3	U	0.33	1	10.3	ug/L
208-96-8	Acenaphthylene	10.3	U	0.72	1	10.3	ug/L
83-32-9	Acenaphthene	10.3	U	0.22	1	10.3	ug/L
86-73-7	Fluorene	10.3	U	0.32	1	10.3	ug/L
85-01-8	Phenanthrene	10.3	U	0.27	1	10.3	ug/L
120-12-7	Anthracene	10.3	U	0.16	1	10.3	ug/L
206-44-0	Fluoranthene	10.3	U	0.41	1	10.3	ug/L
129-00-0	Pyrene	10.3	U	0.21	1	10.3	ug/L
56-55-3	Benzo(a)anthracene	10.3	U	0.16	1	10.3	ug/L
218-01-9	Chrysene	10.3	U	0.19	1	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	10.3	U	0.3	1	10.3	ug/L
207-08-9	Benzo(k)fluoranthene	10.3	U	0.19	1	10.3	ug/L
50-32-8	Benzo(a)pyrene	10.3	U	0.14	1	10.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.3	U	0.15	1	10.3	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.3	U	0.43	1	10.3	ug/L
191-24-2	Benzo(g,h,i)perylene	10.3	U	0.3	1	10.3	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	89.4		36 - 131		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.3		39 - 131		98%	SPK: 100
1718-51-0	Terphenyl-d14	68.9		23 - 130		69%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	32946	7.69				
1146-65-2	Naphthalene-d8	136298	10.47				
15067-26-2	Acenaphthene-d10	78741	14.33				
1517-22-2	Phenanthrene-d10	167033	17.08				
1719-03-5	Chrysene-d12	178800	21.27				
1520-96-3	Perylene-d12	177725	23.52				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11	SDG No.:	G2353
Lab Sample ID:	G2353-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017260.D	1	05/22/15 12:18	05/23/15 01:36	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	DAY-1	SDG No.:	G2353
Lab Sample ID:	G2353-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017263.D	1	05/22/15 12:18	05/23/15 03:20	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.2	U	0.33	1	10.2	ug/L
208-96-8	Acenaphthylene	10.2	U	0.71	1	10.2	ug/L
83-32-9	Acenaphthene	2.5	J	0.21	1	10.2	ug/L
86-73-7	Fluorene	3.3	J	0.32	1	10.2	ug/L
85-01-8	Phenanthrene	10.2	U	0.27	1	10.2	ug/L
120-12-7	Anthracene	10.2	U	0.16	1	10.2	ug/L
206-44-0	Fluoranthene	10.2	U	0.41	1	10.2	ug/L
129-00-0	Pyrene	10.2	U	0.2	1	10.2	ug/L
56-55-3	Benzo(a)anthracene	10.2	U	0.16	1	10.2	ug/L
218-01-9	Chrysene	10.2	U	0.18	1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	10.2	U	0.3	1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	10.2	U	0.18	1	10.2	ug/L
50-32-8	Benzo(a)pyrene	10.2	U	0.14	1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.2	U	0.15	1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.2	U	0.43	1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	10.2	U	0.3	1	10.2	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	87.1		36 - 131		87%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.9		39 - 131		91%	SPK: 100
1718-51-0	Terphenyl-d14	70.6		23 - 130		71%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	32611	7.68				
1146-65-2	Naphthalene-d8	138592	10.47				
15067-26-2	Acenaphthene-d10	83582	14.34				
1517-22-2	Phenanthrene-d10	178186	17.09				
1719-03-5	Chrysene-d12	200156	21.28				
1520-96-3	Perylene-d12	184301	23.53				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	DAY-1	SDG No.:	G2353
Lab Sample ID:	G2353-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017263.D	1	05/22/15 12:18	05/23/15 03:20	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	FIELDBLANK	SDG No.:	G2353
Lab Sample ID:	G2353-09	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF079448.D	1	05/22/15 12:18	05/22/15 22:22	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10.1	U	0.32	1	10.1	ug/L
208-96-8	Acenaphthylene	10.1	U	0.71	1	10.1	ug/L
83-32-9	Acenaphthene	10.1	U	0.21	1	10.1	ug/L
86-73-7	Fluorene	10.1	U	0.31	1	10.1	ug/L
85-01-8	Phenanthrene	10.1	U	0.26	1	10.1	ug/L
120-12-7	Anthracene	10.1	U	0.16	1	10.1	ug/L
206-44-0	Fluoranthene	10.1	U	0.4	1	10.1	ug/L
129-00-0	Pyrene	10.1	U	0.2	1	10.1	ug/L
56-55-3	Benzo(a)anthracene	10.1	U	0.16	1	10.1	ug/L
218-01-9	Chrysene	10.1	U	0.18	1	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	10.1	U	0.29	1	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	10.1	U	0.18	1	10.1	ug/L
50-32-8	Benzo(a)pyrene	10.1	U	0.14	1	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.1	U	0.15	1	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.1	U	0.42	1	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	10.1	U	0.29	1	10.1	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	83		36 - 131		83%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.7		39 - 131		90%	SPK: 100
1718-51-0	Terphenyl-d14	85.9		23 - 130		86%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	72018	7.05				
1146-65-2	Naphthalene-d8	290888	8.63				
15067-26-2	Acenaphthene-d10	137983	10.8				
1517-22-2	Phenanthrene-d10	271515	12.63				
1719-03-5	Chrysene-d12	258036	15.91				
1520-96-3	Perylene-d12	252415	17.61				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	FIELDBLANK	SDG No.:	G2353
Lab Sample ID:	G2353-09	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF079448.D	1	05/22/15 12:18	05/22/15 22:22	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

QC SUMMARY

Surrogate Summary

SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
G2353-01	VE1-2	Nitrobenzene-d5	100	85.46	85		36	131
		2-Fluorobiphenyl	100	91.01	91		39	131
		Terphenyl-d14	100	72.73	73		23	130
G2353-02	VE1-4	Nitrobenzene-d5	100	86.15	86		36	131
		2-Fluorobiphenyl	100	89.91	90		39	131
		Terphenyl-d14	100	69.77	70		23	130
G2353-03	VE2-1	Nitrobenzene-d5	100	91.39	91		36	131
		2-Fluorobiphenyl	100	93.80	94		39	131
		Terphenyl-d14	100	84.17	84		23	130
G2353-04	VE3-1	Nitrobenzene-d5	100	74.72	75		36	131
		2-Fluorobiphenyl	100	71.81	72		39	131
		Terphenyl-d14	100	67.27	67		23	130
G2353-05	VE4-11	Nitrobenzene-d5	100	89.41	89		36	131
		2-Fluorobiphenyl	100	98.27	98		39	131
		Terphenyl-d14	100	68.90	69		23	130
G2353-06MS	VE4-11MS	Nitrobenzene-d5	100	86.17	86		36	131
		2-Fluorobiphenyl	100	93.58	94		39	131
		Terphenyl-d14	100	60.41	60		23	130
G2353-07MSD	VE4-11MSD	Nitrobenzene-d5	100	87.18	87		36	131
		2-Fluorobiphenyl	100	93.40	93		39	131
		Terphenyl-d14	100	60.70	61		23	130
G2353-08	DAY-1	Nitrobenzene-d5	100	87.05	87		36	131
		2-Fluorobiphenyl	100	90.89	91		39	131
		Terphenyl-d14	100	70.62	71		23	130
G2353-09	FIELDBLANK	Nitrobenzene-d5	100	82.98	83		36	131
		2-Fluorobiphenyl	100	89.73	90		39	131
		Terphenyl-d14	100	85.94	86		23	130
PB83561BL	PB83561BL	Nitrobenzene-d5	100	77.58	78		36	131
		2-Fluorobiphenyl	100	80.75	81		39	131
		Terphenyl-d14	100	78.31	78		23	130
PB83561BS	PB83561BS	Nitrobenzene-d5	100	76.71	77		36	131
		2-Fluorobiphenyl	100	78.93	79		39	131
		Terphenyl-d14	100	76.06	76		23	130

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: G2353-06MS		**Client Sample ID: VE4-11MS**						**DataFile: BG017261.D**			
2-Methylnaphthalene	51	0	45.1	ug/L	88				38	146	
Acenaphthylene	51	0	49.8	ug/L	98				40	141	
Acenaphthene	51	0	50.9	ug/L	100				37	146	
Fluorene	51	0	49.5	ug/L	97				39	144	
Phenanthrene	51	0	50.3	ug/L	99				40	147	
Anthracene	51	0	50.2	ug/L	98				41	146	
Fluoranthene	51	0	48.3	ug/L	95				42	146	
Pyrene	51	0	46	ug/L	90				41	149	
Benzo(a)anthracene	51	0	49.3	ug/L	97				41	147	
Chrysene	51	0	49.5	ug/L	97				44	144	
Benzo(b)fluoranthene	51	0	48.9	ug/L	96				40	150	
Benzo(k)fluoranthene	51	0	50.6	ug/L	99				40	147	
Benzo(a)pyrene	51	0	51	ug/L	100				42	147	
Indeno(1,2,3-cd)pyrene	51	0	48.7	ug/L	95				30	166	
Dibenz(a,h)anthracene	51	0	49.4	ug/L	97				23	172	
Benzo(g,h,i)perylene	51	0	49.9	ug/L	98				27	167	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: G2353-07MSD		**Client Sample ID: VE4-11MSD**						**DataFile: BG017262.D**			
2-Methylnaphthalene	50.5	0	46.8	ug/L	93		6		38	146	20
Acenaphthylene	50.5	0	49.3	ug/L	98		0		40	141	20
Acenaphthene	50.5	0	49.6	ug/L	98		2		37	146	20
Fluorene	50.5	0	49.6	ug/L	98		1		39	144	20
Phenanthrene	50.5	0	50.3	ug/L	100		1		40	147	20
Anthracene	50.5	0	50.4	ug/L	100		2		41	146	20
Fluoranthene	50.5	0	49	ug/L	97		2		42	146	20
Pyrene	50.5	0	46.1	ug/L	91		1		41	149	20
Benzo(a)anthracene	50.5	0	48.4	ug/L	96		1		41	147	20
Chrysene	50.5	0	49.3	ug/L	98		1		44	144	20
Benzo(b)fluoranthene	50.5	0	50.1	ug/L	99		3		40	150	20
Benzo(k)fluoranthene	50.5	0	50.2	ug/L	99		0		40	147	20
Benzo(a)pyrene	50.5	0	50.8	ug/L	101		1		42	147	20
Indeno(1,2,3-cd)pyrene	50.5	0	48.6	ug/L	96		1		30	166	20
Dibenz(a,h)anthracene	50.5	0	50	ug/L	99		2		23	172	20
Benzo(g,h,i)perylene	50.5	0	50.9	ug/L	101		3		27	167	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: 8270D **DataFile:** BG017254.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB83561BS	2-Methylnaphthalene	50	38.1	ug/L	76				63	110	
	Acenaphthylene	50	40	ug/L	80				65	110	
	Acenaphthene	50	39.9	ug/L	80				66	114	
	Fluorene	50	40.3	ug/L	81				66	112	
	Phenanthrene	50	41.4	ug/L	83				68	112	
	Anthracene	50	41.8	ug/L	84				69	112	
	Fluoranthene	50	43.5	ug/L	87				67	115	
	Pyrene	50	39.2	ug/L	78				67	116	
	Benzo(a)anthracene	50	40.5	ug/L	81				64	117	
	Chrysene	50	40.8	ug/L	82				65	116	
	Benzo(b)fluoranthene	50	41.1	ug/L	82				62	122	
	Benzo(k)fluoranthene	50	43.2	ug/L	86				60	123	
	Benzo(a)pyrene	50	43	ug/L	86				65	118	
	Indeno(1,2,3-cd)pyrene	50	40.8	ug/L	82				50	133	
	Dibenz(a,h)anthracene	50	40.3	ug/L	81				45	150	
	Benzo(g,h,i)perylene	50	41.6	ug/L	83				64	123	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB83561BL

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

Lab File ID: BG017253.D Lab Sample ID: PB83561BL

Instrument ID: BNA_G Date Extracted: 05/22/2015

Matrix: (soil/water) water Date Analyzed: 05/22/2015

Level: (low/med) LOW Time Analyzed: 19:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB83561BS	PB83561BS	BG017254.D	05/22/2015
VE4-11MS	G2353-06MS	BG017261.D	05/23/2015
VE4-11MSD	G2353-07MSD	BG017262.D	05/23/2015
DAY-1	G2353-08	BG017263.D	05/23/2015
VE2-1	G2353-03	BF079441.D	05/22/2015
FIELDBLANK	G2353-09	BF079448.D	05/22/2015
VE3-1	G2353-04	BG017259.D	05/23/2015
VE4-11	G2353-05	BG017260.D	05/23/2015
VE1-2	G2353-01	BG017270.D	05/23/2015
VE1-4	G2353-02	BG017271.D	05/23/2015

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM SAS No.: G2353 SDG NO.: G2353

Lab File ID: BF078849.D DFTPP Injection Date: 04/30/2015

Instrument ID: BNA_F DFTPP Injection Time: 13:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.3
68	Less than 2.0% of mass 69	0.8 (2) 1
69	Mass 69 relative abundance	39.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	50.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	98.3
443	15.0 - 24.0% of mass 442	18.6 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC080	SSTDICC080	BF078850.D	04/30/2015	15:35
SSTDICC060	SSTDICC060	BF078851.D	04/30/2015	16:04
SSTDICC050	SSTDICC050	BF078852.D	04/30/2015	16:32
SSTDICCC040	SSTDICCC040	BF078853.D	04/30/2015	17:01
SSTDICC025	SSTDICC025	BF078854.D	04/30/2015	17:30
SSTDICC010	SSTDICC010	BF078855.D	04/30/2015	17:58
SSTDICC2.5	SSTDICC2.5	BF078856.D	04/30/2015	18:27

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM SAS No.: G2353 SDG NO.: G2353

Lab File ID: BF079430.D DFTPP Injection Date: 05/22/2015

Instrument ID: BNA_F DFTPP Injection Time: 12:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.9
68	Less than 2.0% of mass 69	0.5 (1.3) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	49.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	23.6
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	87.8
443	15.0 - 24.0% of mass 442	17.2 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF079431.D	05/22/2015	14:11
VE2-1	G2353-03	BF079441.D	05/22/2015	19:03
FIELDBLANK	G2353-09	BF079448.D	05/22/2015	22:22

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM SAS No.: G2353 SDG NO.: G2353

Lab File ID: BG017100.D DFTPP Injection Date: 05/13/2015

Instrument ID: BNA_G DFTPP Injection Time: 11:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	47.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	53.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.9
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	6.3
441	Present, but less than mass 443	13
442	Greater than 50% of mass 198	82.3
443	15.0 - 24.0% of mass 442	15.9 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG017101.D	05/13/2015	11:42
SSTDICC010	SSTDICC010	BG017102.D	05/13/2015	12:16
SSTDICC025	SSTDICC025	BG017103.D	05/13/2015	12:51
SSTDICCC040	SSTDICCC040	BG017104.D	05/13/2015	13:25
SSTDICC050	SSTDICC050	BG017105.D	05/13/2015	14:00
SSTDICC060	SSTDICC060	BG017106.D	05/13/2015	14:35
SSTDICC080	SSTDICC080	BG017107.D	05/13/2015	15:10

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM SAS No.: G2353 SDG NO.: G2353

Lab File ID: BG017241.D DFTPP Injection Date: 05/22/2015

Instrument ID: BNA_G DFTPP Injection Time: 10:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	46.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	54.3
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.8
365	Greater than 1% of mass 198	5.8
441	Present, but less than mass 443	13
442	Greater than 50% of mass 198	82.2
443	15.0 - 24.0% of mass 442	15.5 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG017242.D	05/22/2015	12:22
PB83561BL	PB83561BL	BG017253.D	05/22/2015	19:31
PB83561BS	PB83561BS	BG017254.D	05/22/2015	20:06

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM SAS No.: G2353 SDG NO.: G2353

Lab File ID: BG017257.D DFTPP Injection Date: 05/22/2015

Instrument ID: BNA_G DFTPP Injection Time: 23:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	52.3
68	Less than 2.0% of mass 69	0.3 (0.6) 1
69	Mass 69 relative abundance	51.1
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	54.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	28.5
365	Greater than 1% of mass 198	5.4
441	Present, but less than mass 443	10.1
442	Greater than 50% of mass 198	74.5
443	15.0 - 24.0% of mass 442	13.6 (18.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG017258.D	05/23/2015	00:26
VE3-1	G2353-04	BG017259.D	05/23/2015	01:01
VE4-11	G2353-05	BG017260.D	05/23/2015	01:36
VE4-11MS	G2353-06MS	BG017261.D	05/23/2015	02:10
VE4-11MSD	G2353-07MSD	BG017262.D	05/23/2015	02:45
DAY-1	G2353-08	BG017263.D	05/23/2015	03:20
VE1-2	G2353-01	BG017270.D	05/23/2015	07:22
VE1-4	G2353-02	BG017271.D	05/23/2015	07:57

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2015

Lab File ID: BF079431.D Time Analyzed: 14:11

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	55108	7.05	230365	8.63	108962	10.80
	UPPER LIMIT	110216	7.55	460730	9.13	217924	11.3
	LOWER LIMIT	27554	6.55	115183	8.13	54481	10.3
	EPA SAMPLE NO.						
01	VE2-1	65648	7.05	269874	8.63	130895	10.8
02	FIELDBLANK	72018	7.05	290888	8.63	137983	10.8

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2015

Lab File ID: BF079431.D Time Analyzed: 14:11

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	205961	12.64	209966	15.97	212516	17.85
	UPPER LIMIT	411922	13.14	419932	16.47	425032	18.35
	LOWER LIMIT	102981	12.14	104983	15.47	106258	17.35
	EPA SAMPLE NO.						
01	VE2-1	249525	12.63	235286	15.91	239725	17.65
02	FIELDBLANK	271515	12.63	258036	15.91	252415	17.61

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2015

Lab File ID: BG017242.D Time Analyzed: 12:22

Instrument ID: BNA_G GC Column: RXI-5 ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	40954	7.68	182298	10.47	112555	14.34
	UPPER LIMIT	81908	8.18	364596	10.97	225110	14.84
	LOWER LIMIT	20477	7.18	91149	9.97	56277.5	13.84
	EPA SAMPLE NO.						
01	PB83561BL	32333	7.68	126925	10.47	76453	14.34
02	PB83561BS	32380	7.68	128379	10.47	79556	14.33

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2015

Lab File ID: BG017242.D Time Analyzed: 12:22

Instrument ID: BNA_G GC Column: RXI-5 ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	242589	17.08	282725	21.27	272024	23.52
	UPPER LIMIT	485178	17.58	565450	21.77	544048	24.02
	LOWER LIMIT	121295	16.58	141363	20.77	136012	23.02
	EPA SAMPLE NO.						
01	PB83561BL	170965	17.08	194845	21.26	193373	23.51
02	PB83561BS	172943	17.08	202618	21.27	197876	23.52

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/23/2015

Lab File ID: BG017258.D Time Analyzed: 00:26

Instrument ID: BNA_G GC Column: RXI-5 ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	43166	7.68	183017	10.47	113403	14.33
	UPPER LIMIT	86332	8.18	366034	10.97	226806	14.83
	LOWER LIMIT	21583	7.18	91508.5	9.97	56701.5	13.83
	EPA SAMPLE NO.						
01	VE1-4	32302	7.68	135776	10.47	80446	14.33
02	VE3-1	37836	7.68	149496	10.47	98677	14.34
03	VE4-11	32946	7.69	136298	10.47	78741	14.33
04	VE4-11MS	35251	7.68	149819	10.47	86818	14.34
05	VE4-11MSD	34548	7.68	144958	10.47	87027	14.33
06	DAY-1	32611	7.68	138592	10.47	83582	14.34
07	VE1-2	35508	7.68	150822	10.47	87198	14.33

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/23/2015

Lab File ID: BG017258.D Time Analyzed: 00:26

Instrument ID: BNA_G GC Column: RXI-5 ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	241757	17.08	277004	21.27	269748	23.52
	UPPER LIMIT	483514	17.58	554008	21.77	539496	24.02
	LOWER LIMIT	120879	16.58	138502	20.77	134874	23.02
	EPA SAMPLE NO.						
01	VE1-4	167224	17.08	184650	21.27	185259	23.52
02	VE3-1	203649	17.09	201169	21.27	199770	23.52
03	VE4-11	167033	17.08	178800	21.27	177725	23.52
04	VE4-11MS	184190	17.08	204220	21.27	197537	23.52
05	VE4-11MSD	184343	17.08	204799	21.27	193933	23.52
06	DAY-1	178186	17.09	200156	21.28	184301	23.53
07	VE1-2	183123	17.08	200961	21.27	191563	23.52

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	PB83561BL	SDG No.:	G2353
Lab Sample ID:	PB83561BL	Matrix:	water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017253.D	1	05/22/15 12:18	05/22/15 19:31	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	10	U	0.32	1	10	ug/L
208-96-8	Acenaphthylene	10	U	0.7	1	10	ug/L
83-32-9	Acenaphthene	10	U	0.21	1	10	ug/L
86-73-7	Fluorene	10	U	0.31	1	10	ug/L
85-01-8	Phenanthrene	10	U	0.26	1	10	ug/L
120-12-7	Anthracene	10	U	0.16	1	10	ug/L
206-44-0	Fluoranthene	10	U	0.4	1	10	ug/L
129-00-0	Pyrene	10	U	0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	10	U	0.16	1	10	ug/L
218-01-9	Chrysene	10	U	0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	10	U	0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	10	U	0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	10	U	0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	10	U	0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	10	U	0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	77.6		36 - 131		78%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.8		39 - 131		81%	SPK: 100
1718-51-0	Terphenyl-d14	78.3		23 - 130		78%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	32333	7.68				
1146-65-2	Naphthalene-d8	126925	10.47				
15067-26-2	Acenaphthene-d10	76453	14.34				
1517-22-2	Phenanthrene-d10	170965	17.08				
1719-03-5	Chrysene-d12	194845	21.26				
1520-96-3	Perylene-d12	193373	23.51				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	PB83561BL	SDG No.:	G2353
Lab Sample ID:	PB83561BL	Matrix:	water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017253.D	1	05/22/15 12:18	05/22/15 19:31	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	PB83561BS	SDG No.:	G2353
Lab Sample ID:	PB83561BS	Matrix:	water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017254.D	1	05/22/15 12:18	05/22/15 20:06	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	38.1		0.32	1	10	ug/L
208-96-8	Acenaphthylene	40		0.7	1	10	ug/L
83-32-9	Acenaphthene	39.9		0.21	1	10	ug/L
86-73-7	Fluorene	40.3		0.31	1	10	ug/L
85-01-8	Phenanthrene	41.4		0.26	1	10	ug/L
120-12-7	Anthracene	41.8		0.16	1	10	ug/L
206-44-0	Fluoranthene	43.5		0.4	1	10	ug/L
129-00-0	Pyrene	39.2		0.2	1	10	ug/L
56-55-3	Benzo(a)anthracene	40.5		0.16	1	10	ug/L
218-01-9	Chrysene	40.8		0.18	1	10	ug/L
205-99-2	Benzo(b)fluoranthene	41.1		0.29	1	10	ug/L
207-08-9	Benzo(k)fluoranthene	43.2		0.18	1	10	ug/L
50-32-8	Benzo(a)pyrene	43		0.14	1	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	40.8		0.15	1	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	40.3		0.42	1	10	ug/L
191-24-2	Benzo(g,h,i)perylene	41.6		0.29	1	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	76.7		36 - 131		77%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.9		39 - 131		79%	SPK: 100
1718-51-0	Terphenyl-d14	76.1		23 - 130		76%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	32380	7.68				
1146-65-2	Naphthalene-d8	128379	10.47				
15067-26-2	Acenaphthene-d10	79556	14.33				
1517-22-2	Phenanthrene-d10	172943	17.08				
1719-03-5	Chrysene-d12	202618	21.27				
1520-96-3	Perylene-d12	197876	23.52				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	PB83561BS	SDG No.:	G2353
Lab Sample ID:	PB83561BS	Matrix:	water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017254.D	1	05/22/15 12:18	05/22/15 20:06	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MS	SDG No.:	G2353
Lab Sample ID:	G2353-06MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017261.D	1	05/22/15 12:18	05/23/15 02:10	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	45.1		0.33	1	10.2	ug/L
208-96-8	Acenaphthylene	49.8		0.71	1	10.2	ug/L
83-32-9	Acenaphthene	50.9		0.21	1	10.2	ug/L
86-73-7	Fluorene	49.5		0.32	1	10.2	ug/L
85-01-8	Phenanthrene	50.3		0.27	1	10.2	ug/L
120-12-7	Anthracene	50.2		0.16	1	10.2	ug/L
206-44-0	Fluoranthene	48.3		0.41	1	10.2	ug/L
129-00-0	Pyrene	46		0.2	1	10.2	ug/L
56-55-3	Benzo(a)anthracene	49.3		0.16	1	10.2	ug/L
218-01-9	Chrysene	49.5		0.18	1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	48.9		0.3	1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	50.6		0.18	1	10.2	ug/L
50-32-8	Benzo(a)pyrene	51		0.14	1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.7		0.15	1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.4		0.43	1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	49.9		0.3	1	10.2	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	86.2		36 - 131		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		39 - 131		94%	SPK: 100
1718-51-0	Terphenyl-d14	60.4		23 - 130		60%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	35251	7.68				
1146-65-2	Naphthalene-d8	149819	10.47				
15067-26-2	Acenaphthene-d10	86818	14.34				
1517-22-2	Phenanthrene-d10	184190	17.08				
1719-03-5	Chrysene-d12	204220	21.27				
1520-96-3	Perylene-d12	197537	23.52				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MS	SDG No.:	G2353
Lab Sample ID:	G2353-06MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017261.D	1	05/22/15 12:18	05/23/15 02:10	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MSD	SDG No.:	G2353
Lab Sample ID:	G2353-07MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017262.D	1	05/22/15 12:18	05/23/15 02:45	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
91-57-6	2-Methylnaphthalene	46.8		0.32	1	10.1	ug/L
208-96-8	Acenaphthylene	49.3		0.71	1	10.1	ug/L
83-32-9	Acenaphthene	49.6		0.21	1	10.1	ug/L
86-73-7	Fluorene	49.6		0.31	1	10.1	ug/L
85-01-8	Phenanthrene	50.3		0.26	1	10.1	ug/L
120-12-7	Anthracene	50.4		0.16	1	10.1	ug/L
206-44-0	Fluoranthene	49		0.4	1	10.1	ug/L
129-00-0	Pyrene	46.1		0.2	1	10.1	ug/L
56-55-3	Benzo(a)anthracene	48.4		0.16	1	10.1	ug/L
218-01-9	Chrysene	49.3		0.18	1	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	50.1		0.29	1	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	50.2		0.18	1	10.1	ug/L
50-32-8	Benzo(a)pyrene	50.8		0.14	1	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.6		0.15	1	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	50		0.42	1	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	50.9		0.29	1	10.1	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	87.2		36 - 131		87%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.4		39 - 131		93%	SPK: 100
1718-51-0	Terphenyl-d14	60.7		23 - 130		61%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	34548	7.68				
1146-65-2	Naphthalene-d8	144958	10.47				
15067-26-2	Acenaphthene-d10	87027	14.33				
1517-22-2	Phenanthrene-d10	184343	17.08				
1719-03-5	Chrysene-d12	204799	21.27				
1520-96-3	Perylene-d12	193933	23.52				

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MSD	SDG No.:	G2353
Lab Sample ID:	G2353-07MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG017262.D	1	05/22/15 12:18	05/23/15 02:45	PB83561

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG No.: G2353

Instrument ID: BNA_F Calibration Date(s): 04/30/2015 04/30/2015

Calibration Time(s): 15:35 18:27

LAB FILE ID: RRF080 = BF078850.D RRF060 = BF078851.D RRF050 = BF078852.D
RRF040 = BF078853.D RRF025 = BF078854.D RRF010 = BF078855.D

COMPOUND	RRF080	RRF060	RRF050	RRF040	RRF025	RRF010	RRF	% RSD
2-Fluorophenol	1.189	1.114	1.163	1.130	1.146	1.240	1.162	3.6
Phenol-d6	1.581	1.523	1.499	1.435	1.544	1.673	1.536	4.9
Nitrobenzene-d5	0.361	0.352	0.340	0.332	0.346	0.372	0.348	4.2
2-Methylnaphthalene	0.685	0.639	0.641	0.633	0.656	0.695	0.660	3.7
2-Fluorobiphenyl	1.288	1.293	1.358	1.373	1.516	1.626	1.436	9.9
Acenaphthylene	2.097	1.891	1.958	1.911	2.067	2.245	2.036	6.1
Acenaphthene	1.209	1.104	1.164	1.161	1.216	1.358	1.214	7.0
Fluorene	1.435	1.333	1.356	1.335	1.470	1.616	1.440	7.5
2,4,6-Tribromophenol	0.240	0.216	0.221	0.216	0.214	0.226	0.216	8.3
Phenanthrene	1.112	1.079	1.079	1.071	1.111	1.186	1.119	4.6
Anthracene	1.167	1.061	1.053	1.042	1.095	1.187	1.098	5.2
Fluoranthene	1.235	1.126	1.133	1.119	1.176	1.245	1.166	4.6
Pyrene	1.159	1.097	1.148	1.080	1.172	1.249	1.152	4.8
Terphenyl-d14	0.807	0.751	0.788	0.781	0.859	0.953	0.835	8.9
Benzo(a)anthracene	1.173	1.035	1.076	1.037	1.092	1.177	1.095	5.3
Chrysene	1.021	0.960	1.006	0.965	1.038	1.176	1.053	9.4
Benzo(b)fluoranthene	1.092	1.084	1.101	1.067	1.037	1.130	1.095	3.5
Benzo(k)fluoranthene	1.075	0.969	1.020	1.036	1.132	1.214	1.060	8.4
Benzo(a)pyrene	1.031	0.971	1.002	0.978	1.006	1.068	1.008	3.3
Indeno(1,2,3-cd)pyrene	1.477	1.345	1.339	1.272	1.336	1.380	1.342	5.6
Dibenzo(a,h)anthracene	1.129	1.060	1.071	1.045	1.065	1.102	1.071	3.2
Benzo(g,h,i)perylene	1.121	1.061	1.062	1.033	1.051	1.123	1.074	3.2

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG No.: G2353

Instrument ID: BNA_G Calibration Date(s): 05/13/2015 05/13/2015

Calibration Time(s): 11:42 15:10

LAB FILE ID: RRF2.5 = BG017101.D RRF010 = BG017102.D RRF025 = BG017103.D
RRF040 = BG017104.D RRF050 = BG017105.D RRF060 = BG017106.D

COMPOUND	RRF2.5	RRF010	RRF025	RRF040	RRF050	RRF060	RRF	% RSD
2-Fluorophenol	1.149	1.242	1.103	1.179	1.058	1.057	1.127	6.0
Phenol-d6	1.546	1.689	1.542	1.665	1.512	1.519	1.582	4.5
Nitrobenzene-d5	0.433	0.448	0.421	0.442	0.409	0.400	0.428	4.4
2-Methylnaphthalene	0.855	0.827	0.750	0.766	0.733	0.725	0.776	6.2
2-Fluorobiphenyl	1.467	1.426	1.329	1.399	1.277	1.283	1.363	5.3
Acenaphthylene	2.090	2.020	1.888	2.029	1.849	1.827	1.953	5.1
Acenaphthene	1.224	1.193	1.116	1.176	1.085	1.095	1.154	4.7
Fluorene	1.594	1.558	1.482	1.579	1.423	1.441	1.518	4.5
2,4,6-Tribromophenol	0.260	0.238	0.232	0.248	0.225	0.234	0.242	5.4
Phenanthrene	1.057	1.117	1.000	1.071	0.955	0.975	1.031	5.5
Anthracene	1.076	1.132	1.030	1.071	0.972	0.974	1.045	5.5
Fluoranthene	1.338	1.370	1.210	1.269	1.136	1.138	1.239	7.4
Pyrene	1.258	1.325	1.234	1.263	1.177	1.127	1.227	5.2
Terphenyl-d14	1.049	1.053	0.977	0.984	0.905	0.859	0.960	8.0
Benzo(a)anthracene	1.227	1.221	1.129	1.185	1.085	1.044	1.146	6.0
Chrysene	1.125	1.141	1.054	1.096	1.009	0.975	1.068	5.6
Benzo(b)fluoranthene	1.239	1.200	1.109	1.164	1.117	1.125	1.166	4.4
Benzo(k)fluoranthene	1.151	1.198	1.050	1.140	1.064	1.042	1.107	5.3
Benzo(a)pyrene	1.112	1.116	1.015	1.081	1.031	1.035	1.071	4.0
Indeno(1,2,3-cd)pyrene	1.250	1.330	1.240	1.324	1.226	1.206	1.277	4.8
Dibenzo(a,h)anthracene	1.137	1.125	1.028	1.104	1.065	1.067	1.099	4.4
Benzo(g,h,i)perylene	1.063	1.073	0.997	1.046	0.989	0.988	1.035	4.1

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG No.: G2353

Instrument ID: BNA_F Calibration Date/Time: 05/22/2015 14:11

Lab File ID: BF079431.D Init. Calib. Date(s): 04/30/2015 04/30/2015

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:35 18:27

GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.162	1.279		10.1	
Phenol-d6	1.536	1.633		6.3	
Nitrobenzene-d5	0.348	0.368		5.7	
2-Methylnaphthalene	0.660	0.719		8.9	
2-Fluorobiphenyl	1.436	1.510		5.2	
Acenaphthylene	2.036	2.216		8.8	
Acenaphthene	1.214	1.249		2.9	20.0
Fluorene	1.440	1.516		5.3	
2,4,6-Tribromophenol	0.216	0.231		6.9	
Phenanthrene	1.119	1.187		6.1	
Anthracene	1.098	1.205		9.7	
Fluoranthene	1.166	1.229		5.4	20.0
Pyrene	1.152	1.276		10.8	
Terphenyl-d14	0.835	0.895		7.2	
Benzo(a)anthracene	1.095	1.194		9.0	
Chrysene	1.053	1.138		8.1	
Benzo(b)fluoranthene	1.095	1.155		5.5	
Benzo(k)fluoranthene	1.060	1.213		14.4	
Benzo(a)pyrene	1.008	1.132		12.3	20.0
Indeno(1,2,3-cd)pyrene	1.342	1.453		8.3	
Dibenzo(a,h)anthracene	1.071	1.193		11.4	
Benzo(g,h,i)perylene	1.074	1.175		9.4	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG No.: G2353

Instrument ID: BNA_G Calibration Date/Time: 05/22/2015 12:22

Lab File ID: BG017242.D Init. Calib. Date(s): 05/13/2015 05/13/2015

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:42 15:10

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.127	1.106		-1.9	
Phenol-d6	1.582	1.485		-6.1	
Nitrobenzene-d5	0.428	0.407		-4.9	
2-Methylnaphthalene	0.776	0.688		-11.3	
2-Fluorobiphenyl	1.363	1.296		-4.9	
Acenaphthylene	1.953	1.841		-5.7	
Acenaphthene	1.154	1.074		-6.9	20.0
Fluorene	1.518	1.399		-7.8	
2,4,6-Tribromophenol	0.242	0.221		-8.7	
Phenanthrene	1.031	0.986		-4.4	
Anthracene	1.045	1.009		-3.4	
Fluoranthene	1.239	1.220		-1.5	20.0
Pyrene	1.227	1.063		-13.4	
Terphenyl-d14	0.960	0.849		-11.6	
Benzo(a)anthracene	1.146	1.064		-7.2	
Chrysene	1.068	1.004		-6.0	
Benzo(b)fluoranthene	1.166	1.102		-5.5	
Benzo(k)fluoranthene	1.107	1.069		-3.4	
Benzo(a)pyrene	1.071	1.020		-4.8	20.0
Indeno(1,2,3-cd)pyrene	1.277	1.193		-6.6	
Dibenzo(a,h)anthracene	1.099	1.046		-4.8	
Benzo(g,h,i)perylene	1.035	0.985		-4.8	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG No.: G2353

Instrument ID: BNA_G Calibration Date/Time: 05/23/2015 00:26

Lab File ID: BG017258.D Init. Calib. Date(s): 05/13/2015 05/13/2015

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:42 15:10

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.127	1.061		-5.9	
Phenol-d6	1.582	1.462		-7.6	
Nitrobenzene-d5	0.428	0.415		-3.0	
2-Methylnaphthalene	0.776	0.699		-9.9	
2-Fluorobiphenyl	1.363	1.302		-4.5	
Acenaphthylene	1.953	1.838		-5.9	
Acenaphthene	1.154	1.080		-6.4	20.0
Fluorene	1.518	1.389		-8.5	
2,4,6-Tribromophenol	0.242	0.218		-9.9	
Phenanthrene	1.031	0.978		-5.1	
Anthracene	1.045	0.990		-5.3	
Fluoranthene	1.239	1.207		-2.6	20.0
Pyrene	1.227	1.070		-12.8	
Terphenyl-d14	0.960	0.853		-11.1	
Benzo(a)anthracene	1.146	1.079		-5.8	
Chrysene	1.068	1.009		-5.5	
Benzo(b)fluoranthene	1.166	1.103		-5.4	
Benzo(k)fluoranthene	1.107	1.089		-1.6	
Benzo(a)pyrene	1.071	1.037		-3.2	20.0
Indeno(1,2,3-cd)pyrene	1.277	1.216		-4.8	
Dibenzo(a,h)anthracene	1.099	1.055		-4.0	
Benzo(g,h,i)perylene	1.035	1.000		-3.4	

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	G2353	**OrderDate:**	5/21/2015 3:04:05 PM
Client:	Day Engineering, P.C.	**Project:**	MNR Harmon Yards Low-Flow Samples
Contact:	Raymond Kampff	**Location:**	F52

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
G2353-01	**VE1-2**	**Water**			**05/20/15**			**05/21/15**
			PCB Group1	8082A		05/26/15	05/26/15	
G2353-02	**VE1-4**	**Water**			**05/20/15**			**05/21/15**
			PCB Group1	8082A		05/26/15	05/26/15	
G2353-03	**VE2-1**	**Water**			**05/20/15**			**05/21/15**
			PCB Group1	8082A		05/26/15	05/26/15	
G2353-04	**VE3-1**	**Water**			**05/19/15**			**05/21/15**
			PCB Group1	8082A		05/26/15	05/27/15	
G2353-05	**VE4-11**	**Water**			**05/19/15**			**05/21/15**
			PCB Group1	8082A		05/26/15	05/26/15	
G2353-08	**DAY-1**	**Water**			**05/19/15**			**05/21/15**
			PCB Group1	8082A		05/26/15	05/26/15	
G2353-09	**FIELDBLANK**	**Water**			**05/20/15**			**05/21/15**
			PCB Group1	8082A		05/26/15	05/26/15	

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Hit Summary Sheet
SW-846

SDG No.: **Order ID:**

Client: **Project ID:**

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :								

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-2	SDG No.:	G2353
Lab Sample ID:	G2353-01	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009875.D	1	05/26/15 08:38	05/26/15 17:03	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	15.7		35 - 137		79%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.5		40 - 135		68%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-4	SDG No.:	G2353
Lab Sample ID:	G2353-02	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009876.D	1	05/26/15 08:38	05/26/15 17:18	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.51	U	0.098	0.102	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.102	0.102	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.102	0.102	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.091	0.102	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.102	0.102	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.045	0.102	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.083	0.102	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.083	0.102	0.51	ug/L
11096-82-5	Aroclor-1260	0.51	U	0.083	0.102	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	16.5		35 - 137		82%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.7		40 - 135		73%	SPK: 20

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE2-1	SDG No.:	G2353
Lab Sample ID:	G2353-03	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009877.D	1	05/26/15 08:38	05/26/15 17:33	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.505	U	0.097	0.101	0.505	ug/L
11104-28-2	Aroclor-1221	0.505	U	0.101	0.101	0.505	ug/L
11141-16-5	Aroclor-1232	0.505	U	0.101	0.101	0.505	ug/L
53469-21-9	Aroclor-1242	0.505	U	0.09	0.101	0.505	ug/L
12672-29-6	Aroclor-1248	0.505	U	0.101	0.101	0.505	ug/L
11097-69-1	Aroclor-1254	0.505	U	0.044	0.101	0.505	ug/L
37324-23-5	Aroclor-1262	0.505	U	0.082	0.101	0.505	ug/L
11100-14-4	Aroclor-1268	0.505	U	0.082	0.101	0.505	ug/L
11096-82-5	Aroclor-1260	0.505	U	0.082	0.101	0.505	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19		35 - 137		95%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.5		40 - 135		72%	SPK: 20

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE3-1	SDG No.:	G2353
Lab Sample ID:	G2353-04	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009891.D	1	05/26/15 08:38	05/27/15 11:09	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	14.4		35 - 137		72%	SPK: 20
2051-24-3	Decachlorobiphenyl	8.04		40 - 135		40%	SPK: 20

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LOD = Limit of Detection
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N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11	SDG No.:	G2353
Lab Sample ID:	G2353-05	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009879.D	1	05/26/15 08:38	05/26/15 18:04	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.515	U	0.099	0.103	0.515	ug/L
11104-28-2	Aroclor-1221	0.515	U	0.103	0.103	0.515	ug/L
11141-16-5	Aroclor-1232	0.515	U	0.103	0.103	0.515	ug/L
53469-21-9	Aroclor-1242	0.515	U	0.092	0.103	0.515	ug/L
12672-29-6	Aroclor-1248	0.515	U	0.103	0.103	0.515	ug/L
11097-69-1	Aroclor-1254	0.515	U	0.045	0.103	0.515	ug/L
37324-23-5	Aroclor-1262	0.515	U	0.084	0.103	0.515	ug/L
11100-14-4	Aroclor-1268	0.515	U	0.084	0.103	0.515	ug/L
11096-82-5	Aroclor-1260	0.515	U	0.084	0.103	0.515	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.1		35 - 137		85%	SPK: 20
2051-24-3	Decachlorobiphenyl	15		40 - 135		75%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	DAY-1	SDG No.:	G2353
Lab Sample ID:	G2353-08	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009882.D	1	05/26/15 08:38	05/26/15 18:50	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.51	U	0.098	0.102	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.102	0.102	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.102	0.102	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.091	0.102	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.102	0.102	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.045	0.102	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.083	0.102	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.083	0.102	0.51	ug/L
11096-82-5	Aroclor-1260	0.51	U	0.083	0.102	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	16.1		35 - 137		81%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.5		40 - 135		83%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	FIELDBLANK	SDG No.:	G2353
Lab Sample ID:	G2353-09	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009883.D	1	05/26/15 08:38	05/26/15 19:05	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.505	U	0.097	0.101	0.505	ug/L
11104-28-2	Aroclor-1221	0.505	U	0.101	0.101	0.505	ug/L
11141-16-5	Aroclor-1232	0.505	U	0.101	0.101	0.505	ug/L
53469-21-9	Aroclor-1242	0.505	U	0.09	0.101	0.505	ug/L
12672-29-6	Aroclor-1248	0.505	U	0.101	0.101	0.505	ug/L
11097-69-1	Aroclor-1254	0.505	U	0.044	0.101	0.505	ug/L
37324-23-5	Aroclor-1262	0.505	U	0.082	0.101	0.505	ug/L
11100-14-4	Aroclor-1268	0.505	U	0.082	0.101	0.505	ug/L
11096-82-5	Aroclor-1260	0.505	U	0.082	0.101	0.505	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.2		35 - 137		96%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.6		40 - 135		58%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

Surrogate Summary

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP009805.D	PIBLK-PP009805.D	Tetrachloro-m-xylene	1	20	21.76	109		35	137
		Decachlorobiphenyl	1	20	22.78	114		40	135
		Tetrachloro-m-xylene	2	20	21.81	109		35	137
		Decachlorobiphenyl	2	20	22.44	112		40	135
I.BLK-PP009871.D	PIBLK-PP009871.D	Tetrachloro-m-xylene	1	20	23.76	119		35	137
		Decachlorobiphenyl	1	20	21.65	108		40	135
		Tetrachloro-m-xylene	2	20	24.87	124		35	137
		Decachlorobiphenyl	2	20	19.85	99		40	135
PB83570BL	PB83570BL	Tetrachloro-m-xylene	1	20	18.32	92		35	137
		Decachlorobiphenyl	1	20	18.05	90		40	135
		Tetrachloro-m-xylene	2	20	18.71	94		35	137
		Decachlorobiphenyl	2	20	16.81	84		40	135
PB83570BS	PB83570BS	Tetrachloro-m-xylene	1	20	17.76	89		35	137
		Decachlorobiphenyl	1	20	17.33	87		40	135
		Tetrachloro-m-xylene	2	20	17.75	89		35	137
		Decachlorobiphenyl	2	20	16.26	81		40	135
G2353-01	VE1-2	Tetrachloro-m-xylene	1	20	15.72	79		35	137
		Decachlorobiphenyl	1	20	13.51	68		40	135
		Tetrachloro-m-xylene	2	20	16.51	83		35	137
		Decachlorobiphenyl	2	20	12.22	61		40	135
G2353-02	VE1-4	Tetrachloro-m-xylene	1	20	16.48	82		35	137
		Decachlorobiphenyl	1	20	14.68	73		40	135
		Tetrachloro-m-xylene	2	20	16.83	84		35	137
		Decachlorobiphenyl	2	20	13.19	66		40	135
G2353-03	VE2-1	Tetrachloro-m-xylene	1	20	18.98	95		35	137
		Decachlorobiphenyl	1	20	14.47	72		40	135
		Tetrachloro-m-xylene	2	20	19.64	98		35	137
		Decachlorobiphenyl	2	20	13.14	66		40	135
G2353-05	VE4-11	Tetrachloro-m-xylene	1	20	17.07	85		35	137
		Decachlorobiphenyl	1	20	15.02	75		40	135
		Tetrachloro-m-xylene	2	20	17.27	86		35	137
		Decachlorobiphenyl	2	20	13.68	68		40	135
G2353-06MS	VE4-11MS	Tetrachloro-m-xylene	1	20	18.66	93		35	137
		Decachlorobiphenyl	1	20	15.3	77		40	135
		Tetrachloro-m-xylene	2	20	18.23	91		35	137
		Decachlorobiphenyl	2	20	14.01	70		40	135
G2353-07MSD	VE4-11MSD	Tetrachloro-m-xylene	1	20	18.32	92		35	137
		Decachlorobiphenyl	1	20	15.5	78		40	135
		Tetrachloro-m-xylene	2	20	17.67	88		35	137
		Decachlorobiphenyl	2	20	14.21	71		40	135
G2353-08	DAY-1	Tetrachloro-m-xylene	1	20	16.1	81		35	137
		Decachlorobiphenyl	1	20	16.51	83		40	135
		Tetrachloro-m-xylene	2	20	15.99	80		35	137

Surrogate Summary

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
G2353-08	DAY-1	Decachlorobiphenyl	2	20	14.63	73		40	135
G2353-09	FIELDBLANK	Tetrachloro-m-xylene	1	20	19.15	96		35	137
		Decachlorobiphenyl	1	20	11.6	58		40	135
		Tetrachloro-m-xylene	2	20	19.17	96		35	137
		Decachlorobiphenyl	2	20	10.6	53		40	135
I.BLK-PP009886.D	PIBLK-PP009886.D	Tetrachloro-m-xylene	1	20	24.7	124		35	137
		Decachlorobiphenyl	1	20	22.84	114		40	135
		Tetrachloro-m-xylene	2	20	25.58	128		35	137
		Decachlorobiphenyl	2	20	21.34	107		40	135
I.BLK-PP009889.D	PIBLK-PP009889.D	Tetrachloro-m-xylene	1	20	24.34	122		35	137
		Decachlorobiphenyl	1	20	22.79	114		40	135
		Tetrachloro-m-xylene	2	20	25.22	126		35	137
		Decachlorobiphenyl	2	20	21.88	109		40	135
G2353-04	VE3-1	Tetrachloro-m-xylene	1	20	14.35	72		35	137
		Decachlorobiphenyl	1	20	8.04	40		40	135
		Tetrachloro-m-xylene	2	20	14.35	72		35	137
		Decachlorobiphenyl	2	20	7.09	35	*	40	135
I.BLK-PP009899.D	PIBLK-PP009899.D	Tetrachloro-m-xylene	1	20	25.39	127		35	137
		Decachlorobiphenyl	1	20	23.42	117		40	135
		Tetrachloro-m-xylene	2	20	25.98	130		35	137
		Decachlorobiphenyl	2	20	22.04	110		40	135

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: 8082A **DataFile :** PP009880.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**VE4-11MS**											
G2353-06MS	AR1016	2	0	2.2	ug/L	110				65	145	
	AR1260	2	0	1.8	ug/L	90				65	145	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: 8082A **DataFile :** PP009881.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**VE4-11MSD**											
G2353-07MSD	AR1016	2	0	2	ug/L	100		10		65	145	20
	AR1260	2	0	1.7	ug/L	85		6		65	145	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: G2353

Client: Day Engineering, P.C.

Analytical Method: 8082A **Datafile :** PP009874.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB83570BS	AR1016	2	2.1	ug/L	105				56	149	
	AR1260	2	1.8	ug/L	90				66	147	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB83570BL

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: G2353 SAS No.: G2353 SDG NO.: G2353

Lab Sample ID: PB83570BL Lab File ID: PP009873.D

Matrix: (soil/water) Water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/26/2015

Date Analyzed (1): 05/26/2015 Date Analyzed (2): 05/26/2015

Time Analyzed (1): 16:32 Time Analyzed (2): 16:32

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB83570BS	PB83570BS	PP009874.D	05/26/2015	05/26/2015
VE1-2	G2353-01	PP009875.D	05/26/2015	05/26/2015
VE1-4	G2353-02	PP009876.D	05/26/2015	05/26/2015
VE2-1	G2353-03	PP009877.D	05/26/2015	05/26/2015
VE4-11	G2353-05	PP009879.D	05/26/2015	05/26/2015
VE4-11MS	G2353-06MS	PP009880.D	05/26/2015	05/26/2015
VE4-11MSD	G2353-07MSD	PP009881.D	05/26/2015	05/26/2015
DAY-1	G2353-08	PP009882.D	05/26/2015	05/26/2015
FIELDBLANK	G2353-09	PP009883.D	05/26/2015	05/26/2015
VE3-1	G2353-04	PP009891.D	05/27/2015	05/27/2015

COMMENTS:

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Instrument ID: ECD_P **Calibration Date(s):** 05/21/2015 05/21/2015

Calibration Times: 15:47 16:48

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP009806.D RT 750 = PP009807.D

RT 500 = PP009808.D RT 250 = PP009809.D RT 050 = PP009810.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.07	5.07	5.07	5.07	5.07	5.07	4.97	5.17
Aroclor-1016-2	(2)	5.41	5.41	5.41	5.41	5.41	5.41	5.31	5.51
Aroclor-1016-3	(3)	5.51	5.51	5.51	5.51	5.51	5.51	5.41	5.61
Aroclor-1016-4	(4)	5.80	5.80	5.80	5.80	5.80	5.80	5.70	5.90
Aroclor-1016-5	(5)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1260-1	(1)	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Aroclor-1260-2	(2)	7.46	7.46	7.46	7.46	7.46	7.46	7.36	7.56
Aroclor-1260-3	(3)	7.76	7.76	7.76	7.76	7.76	7.76	7.66	7.86
Aroclor-1260-4	(4)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1260-5	(5)	8.37	8.37	8.37	8.37	8.37	8.37	8.27	8.47
Decachlorobiphenyl		9.74	9.74	9.74	9.74	9.74	9.74	9.64	9.84
Tetrachloro-m-xylene		4.18	4.18	4.18	4.18	4.18	4.18	4.08	4.28

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Instrument ID: ECD_P **Calibration Date(s):** 05/21/2015 05/21/2015

Calibration Times: 15:47 16:48

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP009806.D RT 750 = PP009807.D

RT 500 = PP009808.D RT 250 = PP009809.D RT 050 = PP009810.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.17	4.17	4.17	4.17	4.17	4.17	4.07	4.27
Aroclor-1016-2	(2)	4.57	4.57	4.57	4.57	4.57	4.57	4.47	4.67
Aroclor-1016-3	(3)	4.62	4.62	4.62	4.61	4.62	4.61	4.51	4.71
Aroclor-1016-4	(4)	4.66	4.65	4.65	4.65	4.66	4.65	4.55	4.75
Aroclor-1016-5	(5)	4.82	4.82	4.82	4.82	4.82	4.82	4.72	4.92
Aroclor-1260-1	(1)	5.83	5.83	5.83	5.83	5.83	5.83	5.73	5.93
Aroclor-1260-2	(2)	6.01	6.01	6.01	6.01	6.01	6.01	5.91	6.11
Aroclor-1260-3	(3)	6.33	6.33	6.33	6.33	6.33	6.33	6.23	6.43
Aroclor-1260-4	(4)	6.86	6.86	6.86	6.86	6.86	6.86	6.76	6.96
Aroclor-1260-5	(5)	7.20	7.20	7.20	7.20	7.20	7.20	7.10	7.30
Decachlorobiphenyl		8.18	8.18	8.18	8.18	8.18	8.18	8.08	8.28
Tetrachloro-m-xylene		3.33	3.33	3.33	3.33	3.33	3.33	3.23	3.43

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Instrument ID: ECD_P **Calibration Date(s):** 05/21/2015 05/21/2015

Calibration Times: 15:47 16:48

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP009806.D **CF 750 =** PP009807.D

CF 500 = PP009808.D **CF 250 =** PP009809.D **CF 050 =** PP009810.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	826402	890136	898820	950068	933600	899805	5
Aroclor-1016-2	(2)	1054035	1147989	1160652	1227152	1229200	1163806	6
Aroclor-1016-3	(3)	890408	968247	979684	1043360	977480	971836	6
Aroclor-1016-4	(4)	835306	905847	918032	965420	781740	881269	8
Aroclor-1016-5	(5)	915888	984948	988850	1061752	986860	987660	5
Aroclor-1260-1	(1)	1674437	1795959	1838814	2011372	2073200	1878756	9
Aroclor-1260-2	(2)	2389144	2583433	2592210	2791532	2795580	2630380	6
Aroclor-1260-3	(3)	1741313	1903529	1939362	2048148	1979700	1922410	6
Aroclor-1260-4	(4)	3610805	3886527	3937462	4084672	4392120	3982317	7
Aroclor-1260-5	(5)	2338924	2486743	2524694	2629024	2916360	2579149	8
Decachlorobiphenyl		30818070	33451920	33736380	35689960	36259400	33991146	6
Tetrachloro-m-xylene		37398220	39870587	39834160	40637080	40059000	39559809	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Instrument ID: ECD_P **Calibration Date(s):** 05/21/2015 05/21/2015

Calibration Times: 15:47 16:48

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP009806.D **CF 750 =** PP009807.D

CF 500 = PP009808.D **CF 250 =** PP009809.D **CF 050 =** PP009810.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	1576156	1699468	1700440	1756736	1771720	1700904	5
Aroclor-1016-2	(2)	1671409	1788129	1802676	1872176	1828200	1792518	4
Aroclor-1016-3	(3)	1263992	1360180	1381648	1456580	1492820	1391044	6
Aroclor-1016-4	(4)	1567788	1689096	1709658	1795164	1847440	1721829	6
Aroclor-1016-5	(5)	1735145	1840147	1849862	2005872	2084500	1903105	7
Aroclor-1260-1	(1)	3744928	4012577	4054662	4230276	4291300	4066749	5
Aroclor-1260-2	(2)	4779487	5110485	5166908	5440592	5743440	5248182	7
Aroclor-1260-3	(3)	5291665	5661792	5684600	5822972	6222960	5736798	6
Aroclor-1260-4	(4)	9837962	10486885	10465146	10639516	10562980	10398498	3
Aroclor-1260-5	(5)	7061733	7538955	7539540	7677296	7565200	7476545	3
Decachlorobiphenyl		80525530	85332320	87182580	90759880	95206800	87801422	6
Tetrachloro-m-xylene		67497090	71673227	70880980	71425560	66352000	69565771	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Instrument ID: ECD_P **Date(s) Analyzed:** 05/21/2015 05/21/2015

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.39	4.29	4.49	452166
		2	4.47	4.37	4.57	345974
		3	4.55	4.45	4.65	1065390
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.55	4.45	4.65	829028
		2	5.07	4.97	5.17	401644
		3	5.41	5.31	5.51	527158
		4	5.51	5.41	5.61	410338
		5	5.95	5.85	6.05	427462
Aroclor-1242	500	1	4.87	4.77	4.97	791416
		2	5.07	4.97	5.17	770052
		3	5.41	5.31	5.51	977792
		4	6.21	6.11	6.31	883768
		5	6.24	6.14	6.34	946046
Aroclor-1248	500	1	5.33	5.23	5.43	862934
		2	5.35	5.25	5.45	1019010
		3	5.80	5.70	5.90	1351120
		4	6.21	6.11	6.31	1637260
		5	6.24	6.14	6.34	1603070
Aroclor-1254	500	1	6.18	6.08	6.28	1595510
		2	6.40	6.30	6.50	2472920
		3	6.76	6.66	6.86	2705040
		4	7.05	6.95	7.15	2095680
		5	7.46	7.36	7.56	2561520
Aroclor-1262	500	1	6.92	6.82	7.02	1899150
		2	7.18	7.08	7.28	2210480
		3	7.54	7.44	7.64	3226500
		4	7.76	7.66	7.86	2972420
		5	8.07	7.97	8.17	5828380
Aroclor-1268	500	1	8.36	8.26	8.46	5741780
		2	8.44	8.34	8.54	5918700
		3	8.65	8.55	8.75	4313600
		4	9.05	8.95	9.15	1786290
		5	9.43	9.33	9.53	12238100

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Instrument ID: ECD_P **Date(s) Analyzed:** 05/21/2015 05/21/2015

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.54	3.44	3.64	765296
		2	3.62	3.52	3.72	567904
		3	3.70	3.60	3.80	1816300
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	3.70	3.60	3.80	1408580
		2	4.17	4.07	4.27	749638
		3	4.57	4.47	4.67	766912
		4	4.82	4.72	4.92	762098
		5	5.16	5.06	5.26	862512
Aroclor-1242	500	1	4.17	4.07	4.27	1434420
		2	4.39	4.29	4.49	2060420
		3	4.82	4.72	4.92	1634870
		4	5.16	5.06	5.26	2064460
		5	5.20	5.10	5.30	1698830
Aroclor-1248	500	1	4.39	4.29	4.49	1594170
		2	4.40	4.30	4.50	1649440
		3	4.62	4.52	4.72	2207520
		4	4.65	4.55	4.75	2297480
		5	5.16	5.06	5.26	4190740
Aroclor-1254	500	1	5.16	5.06	5.26	4523580
		2	5.31	5.21	5.41	3958480
		3	5.61	5.51	5.71	3210860
		4	5.70	5.60	5.80	6573300
		5	6.33	6.23	6.43	6110900
Aroclor-1262	500	1	6.01	5.91	6.11	5323160
		2	6.37	6.27	6.47	8170040
		3	6.62	6.52	6.72	7075640
		4	6.86	6.76	6.96	15571900
		5	7.20	7.10	7.30	11645300
Aroclor-1268	500	1	7.14	7.04	7.24	14874300
		2	7.20	7.10	7.30	15954300
		3	7.40	7.30	7.50	11775100
		4	7.69	7.59	7.79	4507900
		5	7.96	7.86	8.06	33255000

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/26/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 16:13 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.06	5.07	4.97	5.17	0.01
Aroclor-1016-2	(2)	5.41	5.41	5.31	5.51	0.00
Aroclor-1016-3	(3)	5.51	5.51	5.41	5.61	0.00
Aroclor-1016-4	(4)	5.80	5.80	5.70	5.90	0.00
Aroclor-1016-5	(5)	5.94	5.94	5.84	6.04	0.00
Aroclor-1260-1	(1)	6.92	6.92	6.82	7.02	0.00
Aroclor-1260-2	(2)	7.46	7.46	7.36	7.56	0.00
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	8.07	8.07	7.97	8.17	0.01
Aroclor-1260-5	(5)	8.37	8.37	8.27	8.47	0.00
Tetrachloro-m-xylene		4.18	4.18	4.08	4.28	0.00
Decachlorobiphenyl		9.73	9.74	9.64	9.84	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/26/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 16:13 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.17	4.17	4.07	4.27	0.00
Aroclor-1016-2	(2)	4.57	4.57	4.47	4.67	0.00
Aroclor-1016-3	(3)	4.62	4.62	4.52	4.72	0.01
Aroclor-1016-4	(4)	4.65	4.65	4.55	4.75	0.00
Aroclor-1016-5	(5)	4.82	4.82	4.72	4.92	0.00
Aroclor-1260-1	(1)	5.83	5.83	5.73	5.93	0.00
Aroclor-1260-2	(2)	6.01	6.01	5.91	6.11	0.00
Aroclor-1260-3	(3)	6.33	6.33	6.23	6.43	0.00
Aroclor-1260-4	(4)	6.86	6.86	6.76	6.96	0.00
Aroclor-1260-5	(5)	7.20	7.20	7.10	7.30	0.00
Tetrachloro-m-xylene		3.33	3.33	3.23	3.43	0.00
Decachlorobiphenyl		8.18	8.18	8.08	8.28	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL01 **Date Analyzed:** 05/26/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009872.D **Time Analyzed:** 16:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.064	4.965	5.165	555.100	500.000	11.0
Aroclor-1016-2	5.413	5.313	5.513	559.590	500.000	11.9
Aroclor-1016-3	5.510	5.411	5.611	569.240	500.000	13.8
Aroclor-1016-4	5.802	5.703	5.903	577.070	500.000	15.4
Aroclor-1016-5	5.942	5.843	6.043	558.760	500.000	11.8
Aroclor-1260-1	6.920	6.822	7.022	504.690	500.000	0.9
Aroclor-1260-2	7.458	7.361	7.561	492.620	500.000	-1.5
Aroclor-1260-3	7.758	7.661	7.861	491.470	500.000	-1.7
Aroclor-1260-4	8.065	7.968	8.168	472.650	500.000	-5.5
Aroclor-1260-5	8.367	8.270	8.470	474.690	500.000	-5.1
Decachlorobiphenyl	9.732	9.636	9.836	46.300	50.000	-7.4
Tetrachloro-m-xylene	4.177	4.078	4.278	53.630	50.000	7.3

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL01 **Date Analyzed:** 05/26/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009872.D **Time Analyzed:** 16:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.170	4.069	4.269	562.680	500.000	12.5
Aroclor-1016-2	4.573	4.473	4.673	553.850	500.000	10.8
Aroclor-1016-3	4.615	4.515	4.715	555.490	500.000	11.1
Aroclor-1016-4	4.654	4.554	4.754	546.770	500.000	9.4
Aroclor-1016-5	4.821	4.721	4.921	557.580	500.000	11.5
Aroclor-1260-1	5.826	5.726	5.926	507.790	500.000	1.6
Aroclor-1260-2	6.010	5.910	6.110	490.930	500.000	-1.8
Aroclor-1260-3	6.330	6.231	6.431	478.700	500.000	-4.3
Aroclor-1260-4	6.860	6.760	6.960	466.350	500.000	-6.7
Aroclor-1260-5	7.200	7.101	7.301	456.230	500.000	-8.8
Decachlorobiphenyl	8.178	8.079	8.279	43.110	50.000	-13.8
Tetrachloro-m-xylene	3.329	3.228	3.428	55.700	50.000	11.4

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/26/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 20:22 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1 (1)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-2 (2)	5.41	5.41	5.31	5.51	0.00
Aroclor-1016-3 (3)	5.51	5.51	5.41	5.61	0.00
Aroclor-1016-4 (4)	5.80	5.80	5.70	5.90	0.00
Aroclor-1016-5 (5)	5.94	5.94	5.84	6.04	0.00
Aroclor-1260-1 (1)	6.92	6.92	6.82	7.02	0.00
Aroclor-1260-2 (2)	7.46	7.46	7.36	7.56	0.00
Aroclor-1260-3 (3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4 (4)	8.07	8.07	7.97	8.17	0.00
Aroclor-1260-5 (5)	8.37	8.37	8.27	8.47	0.00
Tetrachloro-m-xylene	4.18	4.18	4.08	4.28	0.00
Decachlorobiphenyl	9.73	9.74	9.64	9.84	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/26/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 20:22 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.17	4.17	4.07	4.27	0.00
Aroclor-1016-2	(2)	4.57	4.57	4.47	4.67	0.00
Aroclor-1016-3	(3)	4.62	4.62	4.52	4.72	0.01
Aroclor-1016-4	(4)	4.66	4.65	4.55	4.75	-0.01
Aroclor-1016-5	(5)	4.82	4.82	4.72	4.92	0.00
Aroclor-1260-1	(1)	5.83	5.83	5.73	5.93	0.00
Aroclor-1260-2	(2)	6.01	6.01	5.91	6.11	0.00
Aroclor-1260-3	(3)	6.33	6.33	6.23	6.43	0.00
Aroclor-1260-4	(4)	6.86	6.86	6.76	6.96	0.00
Aroclor-1260-5	(5)	7.20	7.20	7.10	7.30	0.00
Tetrachloro-m-xylene		3.33	3.33	3.23	3.43	0.00
Decachlorobiphenyl		8.18	8.18	8.08	8.28	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL02 **Date Analyzed:** 05/26/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009887.D **Time Analyzed:** 20:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.065	4.965	5.165	570.410	500.000	14.1
Aroclor-1016-2	5.414	5.313	5.513	565.070	500.000	13.0
Aroclor-1016-3	5.511	5.411	5.611	568.530	500.000	13.7
Aroclor-1016-4	5.803	5.703	5.903	599.490	500.000	19.9
Aroclor-1016-5	5.943	5.843	6.043	576.050	500.000	15.2
Aroclor-1260-1	6.921	6.822	7.022	523.990	500.000	4.8
Aroclor-1260-2	7.460	7.361	7.561	510.300	500.000	2.1
Aroclor-1260-3	7.758	7.661	7.861	511.980	500.000	2.4
Aroclor-1260-4	8.066	7.968	8.168	488.270	500.000	-2.3
Aroclor-1260-5	8.368	8.270	8.470	493.010	500.000	-1.4
Decachlorobiphenyl	9.733	9.636	9.836	48.380	50.000	-3.2
Tetrachloro-m-xylene	4.179	4.078	4.278	55.360	50.000	10.7

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL02 **Date Analyzed:** 05/26/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009887.D **Time Analyzed:** 20:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.171	4.069	4.269	583.550	500.000	16.7
Aroclor-1016-2	4.573	4.473	4.673	573.650	500.000	14.7
Aroclor-1016-3	4.615	4.515	4.715	577.390	500.000	15.5
Aroclor-1016-4	4.655	4.554	4.754	571.160	500.000	14.2
Aroclor-1016-5	4.821	4.721	4.921	565.440	500.000	13.1
Aroclor-1260-1	5.826	5.726	5.926	526.900	500.000	5.4
Aroclor-1260-2	6.010	5.910	6.110	506.750	500.000	1.4
Aroclor-1260-3	6.331	6.231	6.431	496.840	500.000	-0.6
Aroclor-1260-4	6.860	6.760	6.960	477.570	500.000	-4.5
Aroclor-1260-5	7.200	7.101	7.301	466.330	500.000	-6.7
Decachlorobiphenyl	8.178	8.079	8.279	45.780	50.000	-8.4
Tetrachloro-m-xylene	3.329	3.228	3.428	57.270	50.000	14.5

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/27/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 10:44 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1 (1)	5.06	5.07	4.97	5.17	0.01
Aroclor-1016-2 (2)	5.41	5.41	5.31	5.51	0.00
Aroclor-1016-3 (3)	5.51	5.51	5.41	5.61	0.00
Aroclor-1016-4 (4)	5.80	5.80	5.70	5.90	0.00
Aroclor-1016-5 (5)	5.94	5.94	5.84	6.04	0.00
Aroclor-1260-1 (1)	6.92	6.92	6.82	7.02	0.00
Aroclor-1260-2 (2)	7.46	7.46	7.36	7.56	0.00
Aroclor-1260-3 (3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4 (4)	8.07	8.07	7.97	8.17	0.01
Aroclor-1260-5 (5)	8.37	8.37	8.27	8.47	0.00
Tetrachloro-m-xylene	4.18	4.18	4.08	4.28	0.00
Decachlorobiphenyl	9.73	9.74	9.64	9.84	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/27/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 10:44 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.17	4.17	4.07	4.27	0.00
Aroclor-1016-2	(2)	4.57	4.57	4.47	4.67	0.00
Aroclor-1016-3	(3)	4.61	4.62	4.52	4.72	0.01
Aroclor-1016-4	(4)	4.65	4.65	4.55	4.75	0.00
Aroclor-1016-5	(5)	4.82	4.82	4.72	4.92	0.00
Aroclor-1260-1	(1)	5.83	5.83	5.73	5.93	0.01
Aroclor-1260-2	(2)	6.01	6.01	5.91	6.11	0.00
Aroclor-1260-3	(3)	6.33	6.33	6.23	6.43	0.00
Aroclor-1260-4	(4)	6.86	6.86	6.76	6.96	0.00
Aroclor-1260-5	(5)	7.20	7.20	7.10	7.30	0.00
Tetrachloro-m-xylene		3.33	3.33	3.23	3.43	0.00
Decachlorobiphenyl		8.18	8.18	8.08	8.28	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL03 **Date Analyzed:** 05/27/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009890.D **Time Analyzed:** 10:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.064	4.965	5.165	555.720	500.000	11.1
Aroclor-1016-2	5.412	5.313	5.513	546.370	500.000	9.3
Aroclor-1016-3	5.510	5.411	5.611	545.100	500.000	9.0
Aroclor-1016-4	5.802	5.703	5.903	585.630	500.000	17.1
Aroclor-1016-5	5.942	5.843	6.043	557.630	500.000	11.5
Aroclor-1260-1	6.920	6.822	7.022	506.260	500.000	1.3
Aroclor-1260-2	7.458	7.361	7.561	498.650	500.000	-0.3
Aroclor-1260-3	7.758	7.661	7.861	499.500	500.000	-0.1
Aroclor-1260-4	8.065	7.968	8.168	479.100	500.000	-4.2
Aroclor-1260-5	8.367	8.270	8.470	479.250	500.000	-4.2
Decachlorobiphenyl	9.732	9.636	9.836	47.360	50.000	-5.3
Tetrachloro-m-xylene	4.178	4.078	4.278	53.550	50.000	7.1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL03 **Date Analyzed:** 05/27/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009890.D **Time Analyzed:** 10:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.170	4.069	4.269	573.640	500.000	14.7
Aroclor-1016-2	4.573	4.473	4.673	562.300	500.000	12.5
Aroclor-1016-3	4.614	4.515	4.715	569.380	500.000	13.9
Aroclor-1016-4	4.654	4.554	4.754	562.830	500.000	12.6
Aroclor-1016-5	4.820	4.721	4.921	537.440	500.000	7.5
Aroclor-1260-1	5.825	5.726	5.926	522.740	500.000	4.5
Aroclor-1260-2	6.010	5.910	6.110	504.740	500.000	0.9
Aroclor-1260-3	6.329	6.231	6.431	499.530	500.000	-0.1
Aroclor-1260-4	6.860	6.760	6.960	497.770	500.000	-0.4
Aroclor-1260-5	7.199	7.101	7.301	492.240	500.000	-1.6
Decachlorobiphenyl	8.176	8.079	8.279	46.340	50.000	-7.3
Tetrachloro-m-xylene	3.329	3.228	3.428	55.730	50.000	11.5

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/27/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 14:25 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.06	5.07	4.97	5.17	0.01
Aroclor-1016-2	(2)	5.41	5.41	5.31	5.51	0.00
Aroclor-1016-3	(3)	5.51	5.51	5.41	5.61	0.00
Aroclor-1016-4	(4)	5.80	5.80	5.70	5.90	0.00
Aroclor-1016-5	(5)	5.94	5.94	5.84	6.04	0.00
Aroclor-1260-1	(1)	6.92	6.92	6.82	7.02	0.00
Aroclor-1260-2	(2)	7.46	7.46	7.36	7.56	0.00
Aroclor-1260-3	(3)	7.76	7.76	7.66	7.86	0.00
Aroclor-1260-4	(4)	8.06	8.07	7.97	8.17	0.01
Aroclor-1260-5	(5)	8.37	8.37	8.27	8.47	0.00
Tetrachloro-m-xylene		4.18	4.18	4.08	4.28	0.00
Decachlorobiphenyl		9.73	9.74	9.64	9.84	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

Continuing Calib Date: 05/27/2015 **Initial Calibration Date(s):** 05/21/2015 05/21/2015

Continuing Calib Time: 14:25 **Initial Calibration Time(s):** 15:47 16:48

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.17	4.17	4.07	4.27	0.00
Aroclor-1016-2	(2)	4.57	4.57	4.47	4.67	0.00
Aroclor-1016-3	(3)	4.61	4.62	4.52	4.72	0.01
Aroclor-1016-4	(4)	4.65	4.65	4.55	4.75	0.00
Aroclor-1016-5	(5)	4.82	4.82	4.72	4.92	0.00
Aroclor-1260-1	(1)	5.82	5.83	5.73	5.93	0.01
Aroclor-1260-2	(2)	6.01	6.01	5.91	6.11	0.00
Aroclor-1260-3	(3)	6.33	6.33	6.23	6.43	0.00
Aroclor-1260-4	(4)	6.86	6.86	6.76	6.96	0.00
Aroclor-1260-5	(5)	7.20	7.20	7.10	7.30	0.00
Tetrachloro-m-xylene		3.33	3.33	3.23	3.43	0.00
Decachlorobiphenyl		8.18	8.18	8.08	8.28	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL04 **Date Analyzed:** 05/27/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009900.D **Time Analyzed:** 14:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.064	4.965	5.165	562.560	500.000	12.5
Aroclor-1016-2	5.412	5.313	5.513	563.480	500.000	12.7
Aroclor-1016-3	5.509	5.411	5.611	563.350	500.000	12.7
Aroclor-1016-4	5.800	5.703	5.903	585.850	500.000	17.2
Aroclor-1016-5	5.941	5.843	6.043	556.430	500.000	11.3
Aroclor-1260-1	6.919	6.822	7.022	514.110	500.000	2.8
Aroclor-1260-2	7.457	7.361	7.561	514.650	500.000	2.9
Aroclor-1260-3	7.757	7.661	7.861	507.430	500.000	1.5
Aroclor-1260-4	8.064	7.968	8.168	498.680	500.000	-0.3
Aroclor-1260-5	8.366	8.270	8.470	498.980	500.000	-0.2
Decachlorobiphenyl	9.730	9.636	9.836	47.860	50.000	-4.3
Tetrachloro-m-xylene	4.177	4.078	4.278	55.630	50.000	11.3

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CALIBRATION VERIFICATION SUMMARY

Contract: DAYE02

Lab Code: CHEM **Case No.:** G2353 **SAS No.:** G2353 **SDG NO.:** G2353

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2015 05/21/2015

Client Sample No.: CCAL04 **Date Analyzed:** 05/27/2015

Lab Sample No.: AR1660CCC500 **Data File :** PP009900.D **Time Analyzed:** 14:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.169	4.069	4.269	562.640	500.000	12.5
Aroclor-1016-2	4.572	4.473	4.673	561.660	500.000	12.3
Aroclor-1016-3	4.614	4.515	4.715	561.710	500.000	12.3
Aroclor-1016-4	4.653	4.554	4.754	556.830	500.000	11.4
Aroclor-1016-5	4.819	4.721	4.921	533.460	500.000	6.7
Aroclor-1260-1	5.824	5.726	5.926	526.230	500.000	5.2
Aroclor-1260-2	6.009	5.910	6.110	536.310	500.000	7.3
Aroclor-1260-3	6.329	6.231	6.431	505.830	500.000	1.2
Aroclor-1260-4	6.859	6.760	6.960	498.510	500.000	-0.3
Aroclor-1260-5	7.199	7.101	7.301	462.900	500.000	-7.4
Decachlorobiphenyl	8.176	8.079	8.279	44.470	50.000	-11.1
Tetrachloro-m-xylene	3.328	3.228	3.428	57.000	50.000	14.0

Analytical Sequence

Client: Day Engineering, P.C. **SDG No.:** G2353

Project: MNR Harmon Yards Low-Flow Samples **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/21/2015 05/21/2015

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	05/21/2015	15:31	PP009805.D	9.74	4.18
AR1660ICC1000	AR1660ICC1000	05/21/2015	15:47	PP009806.D	9.74	4.18
AR1660ICC750	AR1660ICC750	05/21/2015	16:02	PP009807.D	9.74	4.18
AR1660ICC500	AR1660ICC500	05/21/2015	16:18	PP009808.D	9.74	4.18
AR1660ICC250	AR1660ICC250	05/21/2015	16:33	PP009809.D	9.74	4.18
AR1660ICC50	AR1660ICC50	05/21/2015	16:48	PP009810.D	9.74	4.18
AR1221ICC500	AR1221ICC500	05/21/2015	17:04	PP009811.D	9.74	4.18
AR1232ICC500	AR1232ICC500	05/21/2015	17:19	PP009812.D	9.74	4.18
AR1242ICC500	AR1242ICC500	05/21/2015	17:34	PP009813.D	9.74	4.18
AR1248ICC500	AR1248ICC500	05/21/2015	17:50	PP009814.D	9.74	4.18
AR1254ICC500	AR1254ICC500	05/21/2015	18:05	PP009815.D	9.74	4.18
AR1262ICC500	AR1262ICC500	05/21/2015	18:20	PP009816.D	9.74	4.18
AR1268ICC500	AR1268ICC500	05/21/2015	18:35	PP009817.D	9.74	4.18
I.BLK	I.BLK	05/26/2015	15:58	PP009871.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/26/2015	16:13	PP009872.D	9.73	4.18
PB83570BL	PB83570BL	05/26/2015	16:32	PP009873.D	9.74	4.18
PB83570BS	PB83570BS	05/26/2015	16:47	PP009874.D	9.73	4.18
VE1-2	G2353-01	05/26/2015	17:03	PP009875.D	9.73	4.18
VE1-4	G2353-02	05/26/2015	17:18	PP009876.D	9.73	4.18
VE2-1	G2353-03	05/26/2015	17:33	PP009877.D	9.73	4.18
VE4-11	G2353-05	05/26/2015	18:04	PP009879.D	9.73	4.18
VE4-11MS	G2353-06MS	05/26/2015	18:19	PP009880.D	9.73	4.18
VE4-11MSD	G2353-07MSD	05/26/2015	18:35	PP009881.D	9.73	4.18
DAY-1	G2353-08	05/26/2015	18:50	PP009882.D	9.73	4.18
FIELDBLANK	G2353-09	05/26/2015	19:05	PP009883.D	9.73	4.18
I.BLK	I.BLK	05/26/2015	20:07	PP009886.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/26/2015	20:22	PP009887.D	9.73	4.18
I.BLK	I.BLK	05/27/2015	10:29	PP009889.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/27/2015	10:44	PP009890.D	9.73	4.18
VE3-1	G2353-04	05/27/2015	11:09	PP009891.D	9.74	4.19
I.BLK	I.BLK	05/27/2015	14:09	PP009899.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/27/2015	14:25	PP009900.D	9.73	4.18

Analytical Sequence

Client: Day Engineering, P.C. **SDG No.:** G2353

Project: MNR Harmon Yards Low-Flow Samples **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/21/2015 05/21/2015

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	05/21/2015	15:31	PP009805.D	9.74	4.18
AR1660ICC1000	AR1660ICC1000	05/21/2015	15:47	PP009806.D	9.74	4.18
AR1660ICC750	AR1660ICC750	05/21/2015	16:02	PP009807.D	9.74	4.18
AR1660ICC500	AR1660ICC500	05/21/2015	16:18	PP009808.D	9.74	4.18
AR1660ICC250	AR1660ICC250	05/21/2015	16:33	PP009809.D	9.74	4.18
AR1660ICC50	AR1660ICC50	05/21/2015	16:48	PP009810.D	9.74	4.18
AR1221ICC500	AR1221ICC500	05/21/2015	17:04	PP009811.D	9.74	4.18
AR1232ICC500	AR1232ICC500	05/21/2015	17:19	PP009812.D	9.74	4.18
AR1242ICC500	AR1242ICC500	05/21/2015	17:34	PP009813.D	9.74	4.18
AR1248ICC500	AR1248ICC500	05/21/2015	17:50	PP009814.D	9.74	4.18
AR1254ICC500	AR1254ICC500	05/21/2015	18:05	PP009815.D	9.74	4.18
AR1262ICC500	AR1262ICC500	05/21/2015	18:20	PP009816.D	9.74	4.18
AR1268ICC500	AR1268ICC500	05/21/2015	18:35	PP009817.D	9.74	4.18
I.BLK	I.BLK	05/26/2015	15:58	PP009871.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/26/2015	16:13	PP009872.D	9.73	4.18
PB83570BL	PB83570BL	05/26/2015	16:32	PP009873.D	9.74	4.18
PB83570BS	PB83570BS	05/26/2015	16:47	PP009874.D	9.73	4.18
VE1-2	G2353-01	05/26/2015	17:03	PP009875.D	9.73	4.18
VE1-4	G2353-02	05/26/2015	17:18	PP009876.D	9.73	4.18
VE2-1	G2353-03	05/26/2015	17:33	PP009877.D	9.73	4.18
VE4-11	G2353-05	05/26/2015	18:04	PP009879.D	9.73	4.18
VE4-11MS	G2353-06MS	05/26/2015	18:19	PP009880.D	9.73	4.18
VE4-11MSD	G2353-07MSD	05/26/2015	18:35	PP009881.D	9.73	4.18
DAY-1	G2353-08	05/26/2015	18:50	PP009882.D	9.73	4.18
FIELDBLANK	G2353-09	05/26/2015	19:05	PP009883.D	9.73	4.18
I.BLK	I.BLK	05/26/2015	20:07	PP009886.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/26/2015	20:22	PP009887.D	9.73	4.18
I.BLK	I.BLK	05/27/2015	10:29	PP009889.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/27/2015	10:44	PP009890.D	9.73	4.18
VE3-1	G2353-04	05/27/2015	11:09	PP009891.D	9.74	4.19
I.BLK	I.BLK	05/27/2015	14:09	PP009899.D	9.73	4.18
AR1660CCC500	AR1660CCC500	05/27/2015	14:25	PP009900.D	9.73	4.18

QC SAMPLE DATA

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	PB83570BL	SDG No.:	G2353
Lab Sample ID:	PB83570BL	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009873.D	1	05/26/15 08:38	05/26/15 16:32	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.3		35 - 137		92%	SPK: 20
2051-24-3	Decachlorobiphenyl	18		40 - 135		90%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/21/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	PIBLK-PP009805.D	SDG No.:	G2353
Lab Sample ID:	I.BLK-PP009805.D	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009805.D	1		05/21/15	pp052115

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.8		35 - 137		109%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		40 - 135		114%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/26/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/26/15
Client Sample ID:	PIBLK-PP009871.D	SDG No.:	G2353
Lab Sample ID:	I.BLK-PP009871.D	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009871.D	1		05/26/15	pp052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	23.8		35 - 137		119%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		40 - 135		108%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/26/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/26/15
Client Sample ID:	PIBLK-PP009886.D	SDG No.:	G2353
Lab Sample ID:	I.BLK-PP009886.D	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009886.D	1		05/26/15	pp052615

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	24.7		35 - 137		124%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		40 - 135		114%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/27/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/27/15
Client Sample ID:	PIBLK-PP009889.D	SDG No.:	G2353
Lab Sample ID:	I.BLK-PP009889.D	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009889.D	1		05/27/15	PP052715

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	24.3		35 - 137		122%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		40 - 135		114%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/27/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/27/15
Client Sample ID:	PIBLK-PP009899.D	SDG No.:	G2353
Lab Sample ID:	I.BLK-PP009899.D	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009899.D	1		05/27/15	PP052715

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	25.4		35 - 137		127%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.4		40 - 135		117%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	
Client Sample ID:	PB83570BS	SDG No.:	G2353
Lab Sample ID:	PB83570BS	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009874.D	1	05/26/15 08:38	05/26/15 16:47	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	2.1		0.096	0.1	0.5	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.1	0.1	0.5	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.1	0.1	0.5	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.089	0.1	0.5	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.1	0.1	0.5	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.044	0.1	0.5	ug/L
37324-23-5	Aroclor-1262	0.5	U	0.081	0.1	0.5	ug/L
11100-14-4	Aroclor-1268	0.5	U	0.081	0.1	0.5	ug/L
11096-82-5	Aroclor-1260	1.8		0.081	0.1	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.8		35 - 137		89%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		40 - 135		87%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MS	SDG No.:	G2353
Lab Sample ID:	G2353-06MS	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009880.D	1	05/26/15 08:38	05/26/15 18:19	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	2.2		0.098	0.102	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.102	0.102	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.102	0.102	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.091	0.102	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.102	0.102	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.045	0.102	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.083	0.102	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.083	0.102	0.51	ug/L
11096-82-5	Aroclor-1260	1.8		0.083	0.102	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.7		35 - 137		93%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		40 - 135		77%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11MSD	SDG No.:	G2353
Lab Sample ID:	G2353-07MSD	Matrix:	Water
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP009881.D	1	05/26/15 08:38	05/26/15 18:35	PB83570

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	2		0.097	0.101	0.505	ug/L
11104-28-2	Aroclor-1221	0.505	U	0.101	0.101	0.505	ug/L
11141-16-5	Aroclor-1232	0.505	U	0.101	0.101	0.505	ug/L
53469-21-9	Aroclor-1242	0.505	U	0.09	0.101	0.505	ug/L
12672-29-6	Aroclor-1248	0.505	U	0.101	0.101	0.505	ug/L
11097-69-1	Aroclor-1254	0.505	U	0.044	0.101	0.505	ug/L
37324-23-5	Aroclor-1262	0.505	U	0.082	0.101	0.505	ug/L
11100-14-4	Aroclor-1268	0.505	U	0.082	0.101	0.505	ug/L
11096-82-5	Aroclor-1260	1.7		0.082	0.101	0.505	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.3		35 - 137		92%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.5		40 - 135		78%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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LAB CHRONICLE

OrderID:	G2353	**OrderDate:**	5/21/2015 3:04:05 PM
Client:	Day Engineering, P.C.	**Project:**	MNR Harmon Yards Low-Flow Samples
Contact:	Raymond Kampff	**Location:**	F52

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
G2353-01	**VE1-2**	**WATER**			**05/20/15**			**05/21/15**
			Metals Group3	6020		05/27/15	05/28/15	
G2353-02	**VE1-4**	**WATER**			**05/20/15**			**05/21/15**
			Metals Group3	6020		05/27/15	05/28/15	
G2353-03	**VE2-1**	**WATER**			**05/20/15**			**05/21/15**
			Metals Group3	6020		05/27/15	05/28/15	
G2353-04	**VE3-1**	**WATER**			**05/19/15**			**05/21/15**
			Metals Group3	6020		05/27/15	05/28/15	
G2353-05	**VE4-11**	**WATER**			**05/19/15**			**05/21/15**
			Metals Group3	6020		05/27/15	05/28/15	
G2353-08	**DAY-1**	**WATER**			**05/19/15**			**05/21/15**
			Metals Group3	6020		05/27/15	05/28/15	
G2353-09	**FIELDBLANK**	**WATER**			**05/20/15**			**05/21/15**
			Metals Group3	6020		05/27/15	05/28/15	

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Hit Summary Sheet
SW-846

SDG No.: G2353 **Order ID:** G2353

Client: Day Engineering, P.C. **Project ID:** MNR Harmon Yards Low-Flow Samples

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : VE1-2									
G2353-01	VE1-2	WATER	Arsenic	2.820		0.18	0.5	1	ug/L
G2353-01	VE1-2	WATER	Chromium	0.969	J	0.04	1.0	2	ug/L
G2353-01	VE1-2	WATER	Copper	3.210		0.04	1.0	2	ug/L
G2353-01	VE1-2	WATER	Lead	4.340		0.04	0.5	1	ug/L
Client ID : VE1-4									
G2353-02	VE1-4	WATER	Arsenic	3.500		0.18	0.5	1	ug/L
G2353-02	VE1-4	WATER	Chromium	0.796	J	0.04	1.0	2	ug/L
G2353-02	VE1-4	WATER	Copper	10.800		0.04	1.0	2	ug/L
G2353-02	VE1-4	WATER	Lead	3.890		0.04	0.5	1	ug/L
Client ID : VE2-1									
G2353-03	VE2-1	WATER	Arsenic	0.507	J	0.18	0.5	1	ug/L
G2353-03	VE2-1	WATER	Chromium	0.137	J	0.04	1.0	2	ug/L
G2353-03	VE2-1	WATER	Copper	4.550		0.04	1.0	2	ug/L
G2353-03	VE2-1	WATER	Lead	1.380		0.04	0.5	1	ug/L
Client ID : VE3-1									
G2353-04	VE3-1	WATER	Arsenic	9.160		0.18	0.5	1	ug/L
G2353-04	VE3-1	WATER	Chromium	3.070		0.04	1.0	2	ug/L
G2353-04	VE3-1	WATER	Copper	5.240		0.04	1.0	2	ug/L
G2353-04	VE3-1	WATER	Lead	3.770		0.04	0.5	1	ug/L
Client ID : VE4-11									
G2353-05	VE4-11	WATER	Arsenic	2.300		0.18	0.5	1	ug/L
G2353-05	VE4-11	WATER	Chromium	1.370	J	0.04	1.0	2	ug/L
G2353-05	VE4-11	WATER	Copper	9.240		0.04	1.0	2	ug/L
G2353-05	VE4-11	WATER	Lead	1.550		0.04	0.5	1	ug/L
Client ID : DAY-1									
G2353-08	DAY-1	WATER	Arsenic	10.700		0.18	0.5	1	ug/L
G2353-08	DAY-1	WATER	Chromium	1.310	J	0.04	1.0	2	ug/L
G2353-08	DAY-1	WATER	Copper	1.340	J	0.04	1.0	2	ug/L
G2353-08	DAY-1	WATER	Lead	1.750		0.04	0.5	1	ug/L
Client ID : FIELDBLANK									
G2353-09	FIELDBLANK	WATER	Chromium	0.431	J	0.04	1.0	2	ug/L
G2353-09	FIELDBLANK	WATER	Copper	80.000		0.04	1.0	2	ug/L
G2353-09	FIELDBLANK	WATER	Lead	1.600		0.04	0.5	1	ug/L

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Hit Summary Sheet
SW-846

SDG No.:	G2353	**Order ID:**	G2353
Client:	Day Engineering, P.C.	**Project ID:**	MNR Harmon Yards Low-Flow Samples

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units

SAMPLE DATA

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-2	SDG No.:	G2353
Lab Sample ID:	G2353-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	2.82		1	0.18	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:08	SW6020
7440-47-3	Chromium	0.969	J	1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:08	SW6020
7440-50-8	Copper	3.21		1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:08	SW6020
7439-92-1	Lead	4.34		1	0.04	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:08	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE1-4	SDG No.:	G2353
Lab Sample ID:	G2353-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	3.5		1	0.18	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:24	SW6020
7440-47-3	Chromium	0.796	J	1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:24	SW6020
7440-50-8	Copper	10.8		1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:24	SW6020
7439-92-1	Lead	3.89		1	0.04	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:24	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE2-1	SDG No.:	G2353
Lab Sample ID:	G2353-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.507	J	1	0.18	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:40	SW6020
7440-47-3	Chromium	0.137	J	1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:40	SW6020
7440-50-8	Copper	4.55		1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:40	SW6020
7439-92-1	Lead	1.38		1	0.04	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:40	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE3-1	SDG No.:	G2353
Lab Sample ID:	G2353-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	9.16		1	0.18	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:55	SW6020
7440-47-3	Chromium	3.07		1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:55	SW6020
7440-50-8	Copper	5.24		1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 01:55	SW6020
7439-92-1	Lead	3.77		1	0.04	0.5	1	ug/L	05/27/15 11:00	05/28/15 01:55	SW6020

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	VE4-11	SDG No.:	G2353
Lab Sample ID:	G2353-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	2.3		1	0.18	0.5	1	ug/L	05/27/15 11:00	05/28/15 02:35	SW6020
7440-47-3	Chromium	1.37	J	1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 02:35	SW6020
7440-50-8	Copper	9.24		1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 02:35	SW6020
7439-92-1	Lead	1.55		1	0.04	0.5	1	ug/L	05/27/15 11:00	05/28/15 02:35	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/19/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	DAY-1	SDG No.:	G2353
Lab Sample ID:	G2353-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.7		1	0.18	0.5	1	ug/L	05/27/15 11:00	05/28/15 04:17	SW6020
7440-47-3	Chromium	1.31	J	1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 04:17	SW6020
7440-50-8	Copper	1.34	J	1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 04:17	SW6020
7439-92-1	Lead	1.75		1	0.04	0.5	1	ug/L	05/27/15 11:00	05/28/15 04:17	SW6020

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	05/20/15
Project:	MNR Harmon Yards Low-Flow Samples	Date Received:	05/21/15
Client Sample ID:	FIELDBLANK	SDG No.:	G2353
Lab Sample ID:	G2353-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	1	U	1	0.18	0.5	1	ug/L	05/27/15 11:00	05/28/15 04:32	SW6020
7440-47-3	Chromium	0.431	J	1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 04:32	SW6020
7440-50-8	Copper	80		1	0.04	1.0	2	ug/L	05/27/15 11:00	05/28/15 04:32	SW6020
7439-92-1	Lead	1.6		1	0.04	0.5	1	ug/L	05/27/15 11:00	05/28/15 04:32	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV09	Arsenic	194.7	200	97.4	90 - 110	P	05/27/2015	14:26	LB76244
	Chromium	96.92	98.0	98.9	90 - 110	P	05/27/2015	14:26	LB76244
	Copper	104.1	98.0	106.2	90 - 110	P	05/27/2015	14:26	LB76244
	Lead	197.1	200	98.6	90 - 110	P	05/27/2015	14:26	LB76244

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV94	Arsenic	487.9	500	97.6	90 - 110	P	05/27/2015	15:21	LB76244
	Chromium	479.2	500	95.8	90 - 110	P	05/27/2015	15:21	LB76244
	Copper	980	1000	98	90 - 110	P	05/27/2015	15:21	LB76244
	Lead	492.2	500	98.4	90 - 110	P	05/27/2015	15:21	LB76244
CCV95	Arsenic	479.4	500	95.9	90 - 110	P	05/27/2015	17:10	LB76244
	Chromium	476.5	500	95.3	90 - 110	P	05/27/2015	17:10	LB76244
	Copper	961.3	1000	96.1	90 - 110	P	05/27/2015	17:10	LB76244
	Lead	487.1	500	97.4	90 - 110	P	05/27/2015	17:10	LB76244
CCV96	Arsenic	483	500	96.6	90 - 110	P	05/27/2015	18:51	LB76244
	Chromium	484.5	500	96.9	90 - 110	P	05/27/2015	18:51	LB76244
	Copper	970.2	1000	97	90 - 110	P	05/27/2015	18:51	LB76244
	Lead	490.6	500	98.1	90 - 110	P	05/27/2015	18:51	LB76244
CCV97	Arsenic	478.4	500	95.7	90 - 110	P	05/27/2015	19:31	LB76244
	Chromium	476.5	500	95.3	90 - 110	P	05/27/2015	19:31	LB76244
	Copper	959.2	1000	95.9	90 - 110	P	05/27/2015	19:31	LB76244
	Lead	485.6	500	97.1	90 - 110	P	05/27/2015	19:31	LB76244
CCV98	Arsenic	464.9	500	93	90 - 110	P	05/27/2015	21:05	LB76244
	Chromium	468	500	93.6	90 - 110	P	05/27/2015	21:05	LB76244
	Copper	930.9	1000	93.1	90 - 110	P	05/27/2015	21:05	LB76244
	Lead	476.9	500	95.4	90 - 110	P	05/27/2015	21:05	LB76244
CCV99	Arsenic	482.8	500	96.6	90 - 110	P	05/27/2015	22:54	LB76244
	Chromium	496.2	500	99.2	90 - 110	P	05/27/2015	22:54	LB76244
	Copper	982.9	1000	98.3	90 - 110	P	05/27/2015	22:54	LB76244
	Lead	493.1	500	98.6	90 - 110	P	05/27/2015	22:54	LB76244
CCV01	Arsenic	469.6	500	93.9	90 - 110	P	05/28/2015	00:37	LB76244
	Chromium	483.7	500	96.7	90 - 110	P	05/28/2015	00:37	LB76244
	Copper	958.1	1000	95.8	90 - 110	P	05/28/2015	00:37	LB76244
	Lead	479.1	500	95.8	90 - 110	P	05/28/2015	00:37	LB76244
CCV02	Arsenic	464.1	500	92.8	90 - 110	P	05/28/2015	02:19	LB76244
	Chromium	487.4	500	97.5	90 - 110	P	05/28/2015	02:19	LB76244
	Copper	950.4	1000	95	90 - 110	P	05/28/2015	02:19	LB76244
	Lead	476.2	500	95.2	90 - 110	P	05/28/2015	02:19	LB76244
CCV03	Arsenic	471.5	500	94.3	90 - 110	P	05/28/2015	04:01	LB76244
	Chromium	496.1	500	99.2	90 - 110	P	05/28/2015	04:01	LB76244

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Copper	962.8	1000	96.3	90 - 110	P	05/28/2015	04:01	LB76244
	Lead	485.2	500	97	90 - 110	P	05/28/2015	04:01	LB76244
CCV04	Arsenic	471.6	500	94.3	90 - 110	P	05/28/2015	04:56	LB76244
	Chromium	490.5	500	98.1	90 - 110	P	05/28/2015	04:56	LB76244
	Copper	960.3	1000	96	90 - 110	P	05/28/2015	04:56	LB76244
	Lead	478.6	500	95.7	90 - 110	P	05/28/2015	04:56	LB76244
CCV05	Arsenic	465.1	500	93	90 - 110	P	05/28/2015	06:38	LB76244
	Chromium	479.6	500	95.9	90 - 110	P	05/28/2015	06:38	LB76244
	Copper	946.6	1000	94.7	90 - 110	P	05/28/2015	06:38	LB76244
	Lead	474.2	500	94.8	90 - 110	P	05/28/2015	06:38	LB76244
CCV06	Arsenic	458.2	500	91.6	90 - 110	P	05/28/2015	08:21	LB76244
	Chromium	472.4	500	94.5	90 - 110	P	05/28/2015	08:21	LB76244
	Copper	932.6	1000	93.3	90 - 110	P	05/28/2015	08:21	LB76244
	Lead	471.5	500	94.3	90 - 110	P	05/28/2015	08:21	LB76244
CCV07	Arsenic	459.7	500	91.9	90 - 110	P	05/28/2015	10:03	LB76244
	Chromium	474.4	500	94.9	90 - 110	P	05/28/2015	10:03	LB76244
	Copper	935.6	1000	93.6	90 - 110	P	05/28/2015	10:03	LB76244
	Lead	469.7	500	93.9	90 - 110	P	05/28/2015	10:03	LB76244
CCV08	Arsenic	485.9	500	97.2	90 - 110	P	05/28/2015	11:39	LB76244
	Chromium	496.8	500	99.4	90 - 110	P	05/28/2015	11:39	LB76244
	Copper	987.7	1000	98.8	90 - 110	P	05/28/2015	11:39	LB76244
	Lead	498	500	99.6	90 - 110	P	05/28/2015	11:39	LB76244
CCV09	Arsenic	494.9	500	99	90 - 110	P	05/28/2015	12:42	LB76244
	Chromium	501.5	500	100.3	90 - 110	P	05/28/2015	12:42	LB76244
	Copper	998.5	1000	99.9	90 - 110	P	05/28/2015	12:42	LB76244
	Lead	504.9	500	101	90 - 110	P	05/28/2015	12:42	LB76244

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI	Arsenic	0.867	1.0	86.7	70 - 130	P	05/27/2015	19:46	LB76244
	Chromium	1.804	2.0	90.2	70 - 130	P	05/27/2015	19:46	LB76244
	Copper	1.79	2.0	89.5	70 - 130	P	05/27/2015	19:46	LB76244
	Lead	0.9	1.0	90	50 - 150	P	05/27/2015	19:46	LB76244

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB09	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	14:41	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	14:41	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	14:41	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	14:41	LB76244

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB94	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	15:28	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	15:28	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	15:28	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	15:28	LB76244
CCB95	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	17:17	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	17:17	LB76244
	Copper	0.052	+/-2.0	J	1.0	2.0	P	05/27/2015	17:17	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	17:17	LB76244
CCB96	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	18:59	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	18:59	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	18:59	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	18:59	LB76244
CCB97	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	19:38	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	19:38	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	19:38	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	19:38	LB76244
CCB98	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	21:20	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	21:20	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	21:20	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	21:20	LB76244
CCB99	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	23:02	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/27/2015	23:02	LB76244
	Copper	0.65	+/-2.0	J	1.0	2.0	P	05/27/2015	23:02	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/27/2015	23:02	LB76244
CCB01	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	00:45	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	00:45	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	00:45	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	00:45	LB76244
CCB02	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	02:27	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	02:27	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	02:27	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	02:27	LB76244
CCB03	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	04:09	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	04:09	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	04:09	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	04:09	LB76244
CCB04	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	05:04	LB76244
	Chromium	0.086	+/-2.0	J	1.0	2.0	P	05/28/2015	05:04	LB76244
	Copper	0.182	+/-2.0	J	1.0	2.0	P	05/28/2015	05:04	LB76244
	Lead	0.085	+/-1.0	J	0.5	1.0	P	05/28/2015	05:04	LB76244

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	06:46	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	06:46	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	06:46	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	06:46	LB76244
CCB06	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	08:29	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	08:29	LB76244
	Copper	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	08:29	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	08:29	LB76244
CCB07	Arsenic	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	10:11	LB76244
	Chromium	2.0	+/-2.0	U	1.0	2.0	P	05/28/2015	10:11	LB76244
	Copper	0.161	+/-2.0	J	1.0	2.0	P	05/28/2015	10:11	LB76244
	Lead	1.0	+/-1.0	U	0.5	1.0	P	05/28/2015	10:11	LB76244
CCB08	Arsenic	0.27	+/-1.0	J	0.5	1.0	P	05/28/2015	11:46	LB76244
	Chromium	0.189	+/-2.0	J	1.0	2.0	P	05/28/2015	11:46	LB76244
	Copper	0.549	+/-2.0	J	1.0	2.0	P	05/28/2015	11:46	LB76244
	Lead	0.256	+/-1.0	J	0.5	1.0	P	05/28/2015	11:46	LB76244
CCB09	Arsenic	0.228	+/-1.0	J	0.5	1.0	P	05/28/2015	12:50	LB76244
	Chromium	0.163	+/-2.0	J	1.0	2.0	P	05/28/2015	12:50	LB76244
	Copper	0.308	+/-2.0	J	1.0	2.0	P	05/28/2015	12:50	LB76244
	Lead	0.166	+/-1.0	J	0.5	1.0	P	05/28/2015	12:50	LB76244

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number

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Metals
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PREPARATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** G2353

Instrument: P6

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB83617BL		**WATER**		**Batch Number:**		**PB83617**		**Prep Date:**	**05/27/2015**	
	Arsenic	1.0	<1.0	U	0.5	1.0	P	05/27/2015	20:02	LB76244
	Chromium	2.0	<2.0	U	1.0	2.0	P	05/27/2015	20:02	LB76244
	Copper	2.0	<2.0	U	1.0	2.0	P	05/27/2015	20:02	LB76244
	Lead	1.0	<1.0	U	0.5	1.0	P	05/27/2015	20:02	LB76244

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

ICS Source: EPA **Instrument ID:** P6

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA09	Arsenic	1.17	0.1	1170	-1.9	2.1	05/27/2015	14:49	LB76244
	Chromium	19.7	21.0	93.8	16.8	25.2	05/27/2015	14:49	LB76244
	Copper	8.62	8.0	107.8	4	12	05/27/2015	14:49	LB76244
	Lead	4.6	4.0	115	2	6	05/27/2015	14:49	LB76244
ICSAB09	Arsenic	21	19.0	110.5	15.2	22.8	05/27/2015	14:57	LB76244
	Chromium	39.2	40.0	98	32	48	05/27/2015	14:57	LB76244
	Copper	29	25.0	116	20	30	05/27/2015	14:57	LB76244
	Lead	24.1	25.0	96.4	20	30	05/27/2015	14:57	LB76244

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Day Engineering, P.C. **level:** low **sdg no.:** G2353

contract: DAYE02 **lab code:** CHEM **case no.:** G2353 **sas no.:** G2353

matrix: WATER **sample id:** G2351-06 **client id:** MW-29SMS

Percent Solids for Sample: NA **Spiked ID:** G2351-07 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	778		1.31		800	97		P
Chromium	ug/L	75 - 125	389		0.747	J	400	97		P
Copper	ug/L	75 - 125	292		3.07		300	96		P
Lead	ug/L	75 - 125	958		0.104	J	1000	96		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Day Engineering, P.C. **level:** low **sdg no.:** G2353

contract: DAYE02 **lab code:** CHEM **case no.:** G2353 **sas no.:** G2353

matrix: WATER **sample id:** G2351-06 **client id:** MW-29SMSD

Percent Solids for Sample: NA **Spiked ID:** G2351-08 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	781		1.31		800	97		P
Chromium	ug/L	75 - 125	389		0.747	J	400	97		P
Copper	ug/L	75 - 125	293		3.07		300	97		P
Lead	ug/L	75 - 125	966		0.104	J	1000	97		P

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metals
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MATRIX SPIKE SUMMARY

client: Day Engineering, P.C. **level:** low **sdg no.:** G2353

contract: DAYE02 **lab code:** CHEM **case no.:** G2353 **sas no.:** G2353

matrix: WATER **sample id:** G2353-05 **client id:** VE4-11MS

Percent Solids for Sample: NA **Spiked ID:** G2353-06 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	778		2.3		800	97		P
Chromium	ug/L	75 - 125	390		1.37	J	400	97		P
Copper	ug/L	75 - 125	298		9.24		300	96		P
Lead	ug/L	75 - 125	993		1.55		1000	99		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Day Engineering, P.C. **level:** low **sdg no.:** G2353

contract: DAYE02 **lab code:** CHEM **case no.:** G2353 **sas no.:** G2353

matrix: WATER **sample id:** G2353-05 **client id:** VE4-11MSD

Percent Solids for Sample: NA **Spiked ID:** G2353-07 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	766		2.3		800	95		P
Chromium	ug/L	75 - 125	383		1.37	J	400	95		P
Copper	ug/L	75 - 125	290		9.24		300	94		P
Lead	ug/L	75 - 125	981		1.55		1000	98		P

CHEMTECH

Metals
- 5b -

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Day Engineering, P.C. **Level:** LOW **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Matrix: WATER **Sample ID:** G2351-06 **Client ID:** MW-29SDUP

Percent Solids for Sample: NA **Duplicate ID** G2351-06DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	1.31		1.24		5		P
Chromium	ug/L	20	0.747	J	0.708	J	5		P
Copper	ug/L	20	3.07		3.19		4		P
Lead	ug/L	20	0.104	J	1.0	U	200.0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Day Engineering, P.C. **Level:** LOW **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Matrix: WATER **Sample ID:** G2351-07 **Client ID:** MW-29SMSD

Percent Solids for Sample: NA **Duplicate ID** G2351-08 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	778		781		0		P
Chromium	ug/L	20	389		389		0		P
Copper	ug/L	20	292		293		0		P
Lead	ug/L	20	958		966		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Day Engineering, P.C. **Level:** LOW **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Matrix: WATER **Sample ID:** G2353-06 **Client ID:** VE4-11MSD

Percent Solids for Sample: NA **Duplicate ID** G2353-07 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	778		766		2		P
Chromium	ug/L	20	390		383		2		P
Copper	ug/L	20	298		290		3		P
Lead	ug/L	20	993		981		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB83617BS							
Arsenic	ug/L	500	472		94.4	80 - 120	P
Chromium	ug/L	500	476		95.2	80 - 120	P
Copper	ug/L	1000	950		95	80 - 120	P
Lead	ug/L	500	481		96.2	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-29SL

Lab Name: Chemtech Consulting Group **Contract:** DAYE02

Lab Code: CHEM **Lb No.:** lb76244 **Lab Sample ID :** G2351-06L **SDG No.:** G2353

Matrix (soil/water): WATER **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	1.31		0.92	J	30		P
Chromium	0.747	J	10.0	U	100.0		P
Copper	3.07		1.93	J	37		P
Lead	0.104	J	5.0	U	100.0		P

Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

VE4-11L

Lab Name: Chemtech Consulting Group **Contract:** DAYE02

Lab Code: CHEM **Lb No.:** lb76244 **Lab Sample ID :** G2353-05L **SDG No.:** G2353

Matrix (soil/water): WATER **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	2.3		1.67	J	27		P
Chromium	1.37	J	1.13	J	18		P
Copper	9.24		8.19	J	11		P
Lead	1.55		1.33	J	14		P

METAL PREPARATION & INSTRUMENT DATA

Metals

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Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Instrument ID: P6 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method:	**6020**				
Arsenic	75	0.18	0.5	1	
Chromium	52	0.04	1.0	2	
Copper	63	0.04	1.0	2	
Lead	208	0.04	0.5	1	

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0001030	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0001620	0.0000000	0.0000000
Lead	220.353	-0.0001070	0.0000000	0.0000280	0.0000000	0.0000000

Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0001570
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0011220	0.0000000	0.0000000	0.0000000	0.0015300
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0002280	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0014660
Lead	220.353	-0.0003060	0.0000000	0.0000000	0.0001250	-0.0013650

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0049290	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0002444	0.0000000	0.0000000	0.0000000

Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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LINEAR RANGES

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** G2353 **SAS No.:** G2353

Instrument ID: P6 **Date:** 02/17/2015

Analyte	Integration Time (sec)	LDR ug/L
Arsenic	0.001	5000
Chromium	0.1	5000
Copper	0.1	10000
Lead	0.1	10000

METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client: Day Engineering, P.C. **SDG No.:** G2353

Contract: DAYE02 **Lab Code:** CHEM **Method:**

Case No.: G2353 **SAS No.:** G2353

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB83617**						
G2351-06DUP	MW-29SDUP	DUP	WATER	05/27/2015	50.0	50.0	
G2351-07	MW-29SMS	MS	WATER	05/27/2015	50.0	50.0	
G2351-08	MW-29SMSD	MSD	WATER	05/27/2015	50.0	50.0	
G2353-01	VE1-2	SAM	WATER	05/27/2015	50.0	50.0	
G2353-02	VE1-4	SAM	WATER	05/27/2015	50.0	50.0	
G2353-03	VE2-1	SAM	WATER	05/27/2015	50.0	50.0	
G2353-04	VE3-1	SAM	WATER	05/27/2015	50.0	50.0	
G2353-05	VE4-11	SAM	WATER	05/27/2015	50.0	50.0	
G2353-06	VE4-11MS	MS	WATER	05/27/2015	50.0	50.0	
G2353-07	VE4-11MSD	MSD	WATER	05/27/2015	50.0	50.0	
G2353-08	DAY-1	SAM	WATER	05/27/2015	50.0	50.0	
G2353-09	FIELDBLANK	SAM	WATER	05/27/2015	50.0	50.0	
PB83617BL	PB83617BL	MB	WATER	05/27/2015	50.0	50.0	
PB83617BS	PB83617BS	LCS	WATER	05/27/2015	50.0	50.0	

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ANALYSIS RUN LOG

Client: Day Engineering, P.C. **Contract:** DAYE02

Lab code: CHEM **Case no.:** G2353 **Sas no.:** G2353 **Sdg no.:** G2353

Instrument id number: **Method:** **Run number:** LB76244

Start date: 05/27/2015 **End date:** 05/27/2015

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1331	As,Cr,Cu,Pb
S1	S1	1	1339	As,Cr,Cu,Pb
S2	S2	1	1355	As,Cr,Cu,Pb
S3	S3	1	1403	As,Cr,Cu,Pb
S4	S4	1	1410	As,Cr,Cu,Pb
S5	S5	1	1418	As,Cr,Cu,Pb
ICV09	ICV09	1	1426	As,Cr,Cu,Pb
ICB09	ICB09	1	1441	As,Cr,Cu,Pb
ICSA09	ICSA09	1	1449	As,Cr,Cu,Pb
ICSAB09	ICSAB09	1	1457	As,Cr,Cu,Pb
ICSA09	ICSA09	10	1505	As,Cr,Cu,Pb
ICSAB09	ICSAB09	10	1513	As,Cr,Cu,Pb
CCV94	CCV94	1	1521	As,Cr,Cu,Pb
CCB94	CCB94	1	1528	As,Cr,Cu,Pb
CCV95	CCV95	1	1710	As,Cr,Cu,Pb
CCB95	CCB95	1	1717	As,Cr,Cu,Pb
CCV96	CCV96	1	1851	As,Cr,Cu,Pb
CCB96	CCB96	1	1859	As,Cr,Cu,Pb
CCV97	CCV97	1	1931	As,Cr,Cu,Pb
CCB97	CCB97	1	1938	As,Cr,Cu,Pb
CRI	CRI	1	1946	As,Cr,Cu,Pb
PB83617BL	PB83617BL	1	2002	As,Cr,Cu,Pb
PB83617BS	PB83617BS	1	2010	As,Cr,Cu,Pb
CCV98	CCV98	1	2105	As,Cr,Cu,Pb
CCB98	CCB98	1	2120	As,Cr,Cu,Pb
G2351-06DUP	MW-29SDUP	1	2215	As,Cr,Cu,Pb
G2351-06L	MW-29SL	5	2231	As,Cr,Cu,Pb
CCV99	CCV99	1	2254	As,Cr,Cu,Pb
CCB99	CCB99	1	2302	As,Cr,Cu,Pb
G2351-07	MW-29SMS	1	2310	As,Cr,Cu,Pb
G2351-08	MW-29SMSD	1	2326	As,Cr,Cu,Pb
CCV01	CCV01	1	0037	As,Cr,Cu,Pb
CCB01	CCB01	1	0045	As,Cr,Cu,Pb
G2353-01	VE1-2	1	0108	As,Cr,Cu,Pb
G2353-02	VE1-4	1	0124	As,Cr,Cu,Pb
G2353-03	VE2-1	1	0140	As,Cr,Cu,Pb
G2353-04	VE3-1	1	0155	As,Cr,Cu,Pb
CCV02	CCV02	1	0219	As,Cr,Cu,Pb
CCB02	CCB02	1	0227	As,Cr,Cu,Pb
G2353-05	VE4-11	1	0235	As,Cr,Cu,Pb
G2353-05L	VE4-11L	5	0250	As,Cr,Cu,Pb
G2353-06	VE4-11MS	1	0306	As,Cr,Cu,Pb
G2353-07	VE4-11MSD	1	0322	As,Cr,Cu,Pb

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Day Engineering, P.C. **Contract:** DAYE02

Lab code: CHEM **Case no.:** G2353 **Sas no.:** G2353 **Sdg no.:** G2353

Instrument id number: **Method:** **Run number:** LB76244

Start date: 05/27/2015 **End date:** 05/27/2015

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV03	CCV03	1	0401	As,Cr,Cu,Pb
CCB03	CCB03	1	0409	As,Cr,Cu,Pb
G2353-08	DAY-1	1	0417	As,Cr,Cu,Pb
G2353-09	FIELDBLANK	1	0432	As,Cr,Cu,Pb
CCV04	CCV04	1	0456	As,Cr,Cu,Pb
CCB04	CCB04	1	0504	As,Cr,Cu,Pb
CCV05	CCV05	1	0638	As,Cr,Cu,Pb
CCB05	CCB05	1	0646	As,Cr,Cu,Pb
CCV06	CCV06	1	0821	As,Cr,Cu,Pb
CCB06	CCB06	1	0829	As,Cr,Cu,Pb
CCV07	CCV07	1	1003	As,Cr,Cu,Pb
CCB07	CCB07	1	1011	As,Cr,Cu,Pb
CCV08	CCV08	1	1139	As,Cr,Cu,Pb
CCB08	CCB08	1	1146	As,Cr,Cu,Pb
CCV09	CCV09	1	1242	As,Cr,Cu,Pb
CCB09	CCB09	1	1250	As,Cr,Cu,Pb

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO: G2353
QUOTE NO.
COC Number 034869

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Day Engineering
ADDRESS: 1563 Lyell Ave
CITY: Rochester STATE: NY ZIP: 14606
ATTENTION: Ray Kampff
PHONE: 585 454 0210 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MNR Harmon OU 2
PROJECT NO.: LOCATION: Harmon Yard
PROJECT MANAGER: Ray Kampff
e-mail: RKAMPFF @ DAYMAIL.NET
PHONE: 585 454 0210 FAX:

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

8260
8270

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others_____
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format: NYDEC Equis

ANALYSIS

1 CP51 VOCs + chlorobenzene
2 CP51 SVOCs + 2 methylnaphthlene
3 PCBs – 8080
4 Arsenic, chromium, copper, lead
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	E	E	B						← Specify Preservatives A–HCl B–HNO₃ C–H₂SO₄ D–NaOH E–ICE F–Other
1.	VE 1-2			X	5/20/15		5	X	X	X	X						
2.	VE 1-4			X	5/20/15		5	X	X	X	X						
3.	VE 2-1			X	5/20/15		5	X	X	X	X						
4.	VE 3-1			X	5/19/15		5	X	X	X	X						
5.	VE 4-11			X	5/19/15		5	X	X	X	X						
6.	VE 4-11 MS			X	5/19/15		5	X	X	X	X						
7.	VE 4-11 MSD			X	5/19/15		5	X	X	X	X						
8.	DAY-1			X	5/19/15		5	X	X	X	X						
9.	FIELD BLANK			X	5/20/15		5	X	X	X	X						
10.																	

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SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. T Roszak	5/21/15 0700	1. 1350
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.	5-21-15 1735	3.

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 6.0°
Ice in Cooler?: ✓

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☑ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

G2353

From: Ray Kampff <RKampff@daymail.net>
Sent: Friday, May 22, 2015 12:08 PM
To: Snehal Mehta
Subject: RE: MNR Samples picked up on 5/21

Yes OK to adjust pH

From: Snehal Mehta [mailto:Snehal@chemtech.net]
Sent: Friday, May 22, 2015 11:59 AM
To: Ray Kampff
Subject: MNR Samples picked up on 5/21

Ray,

Just left you a voice mail about samples picked up on 5/21. We have created 3-separate work orders as attached COCs indicates three different site/locations. Four samples listed below will need you permission to adjust the pH to proceed with Metals analysis as it's received with Ph > 2.

- VE2-1
- VE3-1
- DAY-1
- VE4-11

Regards,

Snehal Mehta

Tel. 908 728 3149
Fax: 908-789-8514

CHEMTECH 284 Sheffield Street Mountainside NJ 07092 Tel. 908-7898900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Louisiana	5035
Maryland	296
Massachusetts	M-NJ503
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other :

DOD ELAP Certified (L-A-B Accredited), ISO/IEC 17025	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148