SITE MANAGEMENT PLAN STATUS REPORT
REPORT PERIOD: APRIL 1, 2023 THROUGH JUNE 30, 2023

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

SUMMARY OF WORK COMPLETED DURING THE REPORTING PERIOD: This status report summarizes the remedial actions and monitoring completed between April 1, 2023 and June 30, 2023 at the Harmon Railroad Yard Operable Units: OU-I and OU-II, Westchester County, New York, NYSDEC Site No. 3-60-010 (the Site). This status report was prepared in accordance with the provisions presented in the document tilted *Metro-North Railroad, Harmon Railroad Yard, Westchester, County, New York, Site Management Plan OU-I and OU-II, NYSDEC Site Number: 3-60-010* dated December 2011 as revised November 11, 2012, January 31, 2015, and January 31, 2016 (the SMP). During this report period, depth to free product and groundwater measurements were completed as outlined in the SMP and free product was removed from select wells. Depth to free product and static water level measurements were also made in off-site monitoring wells that were installed in September 2016.

DEPTH TO GROUNDWATER AND FREE PRODUCT MEASUREMENTS: The wells monitored, and the depth to groundwater and free product measurements completed during this report period are presented on the logs included in Attachment A. A groundwater contour map developed using static water levels measured between May 10, 2023 and May 16, 2023 is included as Figure 1.

FREE PRODUCT REMOVAL RECORDS: The monitoring logs in Attachment A document the amount of free product removed (if any) from specific wells during this report period. A summary of the amount of free product removed from each well during the current report period is presented in Table 1. The total amount of free product removed from each well during prior report periods (i.e., between December 1, 2012 and March 31, 2023) is summarized in Table 2. A spider diagram presenting the maximum free product thicknesses measured, and the amount of free product removed from select wells during the current report period (i.e., between April 1, 2023 and June 30, 2023) and the preceding report period (i.e., between January 1, 2023 and March 31, 2023) is included as Figure 2.

During the report period, wells RW-1, FA4-8, and AI2-3 contained Spill Buster™ systems (i.e., a pumping system that continuously monitors/removes free product). A bailer or portable Spill Buddy™ was used to remove free product from other wells containing sufficient amounts of free product.

Higher amounts of free product were removed from wells RW-1 and AI2-3 in the current report period (i.e., April 1, 2023 to June 30, 2023) compared to the previous report period (i.e., January 1, 2023 to March 31, 2023). Specifically, 15.6 gallons of free product were removed from well AI2-3 in the current report period compared to 3.0 gallons in the previous report period and 54.4 gallons of free product were removed from well RW-1 in the current report period compared to no free product removed from well RW-1 in the previous report period. Free product was not removed from well FA4-8 during the current or previous report periods.

A total of approximately 79.9 gallons of free product was removed from wells at the Site during the current report period. The majority of the free product was removed from NAPL Area L4 (i.e., approximately 62.8 gallons). The total amount of free product removed in the previous reporting period (i.e., between January 1, 2023 and March 31, 2023) was approximately 16.4 gallons. The total amount

of free product removed in a similar calendar period (i.e., between April 1, 2022 and June 30, 2022) was 43.0 gallons. Since January 1, 2013, approximately 5,066 gallons of free product or approximately 113 gallons per reporting period (i.e., every three months) has been removed from the Site.

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

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

GROUNDWATER SAMPLING AND TESTING: Groundwater sampling and testing of wells located in OU-II was not completed during the report period. However, a summary of the detected constituents in the groundwater samples collected between March 2012 (i.e., the initial quarter completed under the SMP) and March 2023 (i.e., the most recent sampling event) is included in the tables listed below for reference purposes. The results of field duplicate, field blank, and trip blank samples collected during the monitoring events are included on the summary tables. MS/MSD results are included in the reports prepared by the analytical laboratory.

- volatile organic compounds (VOCs), (Table 3);
- semi-volatile organic compounds (SVOCs), (Table 4);
- PCBs (Table 5);
- metals (Table 6); and
- per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane (Table 7).

The next groundwater sampling event is currently scheduled to be completed in August 2024. During the August 2024 sample event, samples will be collected from monitoring wells VE1-2, VE1-4, VE2-1, VE3-1, VE4-11, and DAY-1. These samples will be submitted to an analytical laboratory for testing of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, and select metals. Samples will be collected from monitoring wells VE1-4, VE2-1, and VE4-11 and tested for PFAS and 1,4-dioxane. Quality assurance/quality control samples that will be collected during the August 2024 sampling event include: a field duplicate, MS/MSD, trip blank (VOCs and PFAS only), and equipment blank. Samples will also be collected from five on-site monitoring wells (i.e., FA4-9, FA4-16, VE4-7, VE4-9, and PGW-2) and six off-site monitoring wells (i.e., OUII-A through OUII-F) and tested for PCBs. No additional QA/QC samples will be collected/tested from these monitoring wells. [Note: If sufficient free product is present in any of these eleven monitoring wells, a sample of the free product will be submitted for testing of PCBs.] Laboratory packages will be submitted for data validation.

DATA USABILITY SUMMARY REPORTS:

Data Usability Summary Reports (DUSRs) have been received for testing completed in 2019 through 2023, and Tables 3 through 7 are updated with the information provided in the respective DUSRs.

Copies of the DUSRs are included in Attachment B. [Note: The DUSR related to PFAS testing completed in 2023 has not been received as of the date of this report. This DUSR will be included in the next status report.] The EqUIS submittals will be updated to incorporate applicable modifications warranted by the DUSR results.

OFF-SITE MONITORING WELLS: Off-Site monitoring wells designated OUII-A through OUII-F were installed between September 20 and 22, 2016 (refer to Figure 1 for locations). Static water level and free product thickness measurements in these monitoring wells commenced on October 4, 2016. The results of the monitoring completed during the current report period for these wells are provided in Attachment B. As shown, free product was observed in monitoring wells OUII-A, OUII-B, OUII-C, OUII-D, OUII-E, and OUII-F, ranging in thickness between 0.1 ft. and 1.64 ft. The thicknesses of free product measured in the off-site monitoring wells during this period were comparable or lower to the thicknesses measured in previous report periods in the spring timeframe (i.e., April through June) except for OUII-D, which increased when compared to the three previous spring report periods. Free product was not recovered from the off-site monitoring wells.

Table 8 presents the range of static water levels and the free product thickness measured in each of the off-site wells during the monitoring events completed to date. Figure 3 shows the average free product thickness detected in the off-site monitoring wells by report period. Historically, free product has been consistently detected in off-site wells OUII-A, OUII-B, OUII-D, and OUII-F; occasionally detected in off-site well OUII-C; and has not been previously detected in off-site well OUII-E. [Note: Free product was detected in well OUII-E on one occasion in the current report period at a reported thickness of 0.01 ft. This measurement may have been the result of equipment error.] As shown on Figure 3, the amount of free product in the off-site wells is seasonally affected, with the highest amounts in the late summer and fall seasons. The average thickness of free product detected in the off-site wells has generally decreased, or remained consistent, since monitoring began in 2016.

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

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

BI-ANNUAL OU-I AND OU-II INSPECTION: The most recent inspection of OU-I and OU-II was completed on April 21, 2023 by MNR.

During the April 21, 2023 inspection of the OU-I and OU-II areas, the following item requiring corrective actions were identified.

- Cracks were observed in the asphalt cover of OU-I.
- A missing cap was observed on well P-7. No other problems associated with the remedial systems or ECs requiring repair/modification were identified during the report period. A copy of the inspection report completed on April 21, 2023, including photographs, is included in Attachment D. The next inspection is scheduled for October 2023.

WORK ANTICIPATED FOR THE UPCOMING REPORT PERIOD AND SCHEDULE: During the upcoming reporting period (i.e., between July 1, 2023 and August 31, 2023), free product and groundwater monitoring will continue in accordance with the schedule presented in the SMP (i.e., as modified by the schedule presented in the March 2014 CAP). As such, it is anticipated that free product will be removed from wells RW-1, FA4-8, and AI2-3 using the Spill Buster™ system. If it is determined that a Spill Buster™ in one of these wells is functional, but that limited free product remains in that location (i.e., if minimal free product removal continues in well FA4-8), the Spill Buster(s)™ may be removed and installed in a well with higher levels of free product (e.g., FA4-14, FA4-17, or VE4-5) and/or the function of the Spill Buster™ should be confirmed. Free product detected in wells not containing a Spill Buster™ system should be removed using a bailer or portable Spill Buddy™, as warranted. The off-site monitoring wells should continue to be monitored on a weekly basis and free product removed if warranted.

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

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

Monitoring well VE 3-1 should be developed to remove the apparent blockage encountered in August 2022 and March 2023. If the apparent blockage observed during the August 2022 and March 2023 groundwater sampling event in monitoring well VE 3-1 cannot be removed, a replacement well will be required.

The next OU-I/OU-II inspection is due on or about October 31, 2023. The next groundwater sampling and testing will be completed on, or about, August 31, 2024. A SMP status report for the work completed during the upcoming period (i.e., July 1, 2023 through September 30, 2023) will be submitted in October 2023.

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

If comments are received from the NYSDEC on the August 31, 2022 document describing an

alternative approach to assess the free product impact in the OUII area during the upcoming period, the document should be revised and work described should be initiated, as appropriate.

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

Tables

Figures

Attachments

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TABLES

Table 1

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

Free Product Removal Totals
Current Report Period: April 1, 2023 through June 30, 2023

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

OU II

Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0
AI1-4	0
AI1-8	0
AI1-11	0
AI1-12	0
AI1-15	0
AI1-16	0
AI1-17	0
SP-North	0
VE1-1	2
VE1-2	0
VE1-3	0
VE1-4	0
WB-9	0
Total	**1.5**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	0
AI2-3*	15.6
VE2-1	0
Total	**15.6**

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

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	0
FA4-9	0
FA4-10	NM
FA4-11	0
FA4-12	1
FA4-13	0
FA4-14	2.89
FA4-15	0.75
FA4-16	0
FA4-17	2.13
FA4-18	0.63
FA4-19	NM
FA4-20	0
FA4-21	0
FA4-23	0
PGW-2	0
RW-1*	54.4
VE4-1	0
VE4-5	1.38
VE4-6	0
VE4-7	0
VE4-8	0
VE4-9	0
VE4-10	0
VE4-11	0
VE4-12	0
VE4-13	NM
Total	**62.81**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other locations using a portable Spill Buddy™.]

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

Table 2

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

HIstoric Free Product Removal Totals (i.e., Prior to Current Report Period)
December 1, 2012 - March 31, 2023

OU I	
Well ID	Gallons Removed
V1	5.18
V2	5.235
V3	19.08
V4	167.31
Total	**196.805**

OU II	
Free Product AREA L1	
Well ID	Gallons Removed
AI1-1	0.03
AI1-4	0.04
AI1-8	0.06
AI1-11	0.122
AI1-12	0.18
AI1-15	0.38
AI1-16	0
AI1-17	9.14
VE1-1	22.89
VE1-2	0.01
VE1-3	0.1
VE1-4	0
Total	**32.882**

Free Product AREA L2	
Well ID	Gallons Removed
AI2-2	1.63
AI2-3*	1056.03
VE2-1	0
Total	**1057.66**

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

Free Product AREA L4	
Well ID	Gallons Removed
DAY-1	0
FA4-8*	616.26
FA4-9	4.48
FA4-10	0.13
FA4-11	160.47
FA4-12	12.67
FA4-13	101.8
FA4-14	309.54
FA4-15	87.04
FA4-16	76.56
FA4-17	85.97
FA4-18	119.34
FA4-19	0
FA4-20	0
FA4-21	0.54
FA4-23	1.17
PGW-2	23.83
RW-1*	1825.4
VE4-1	0
VE4-5	236.28
VE4-6	2.26
VE4-7	0.08
VE4-8	2.92
VE4-9	9.41
VE4-10	5.56
VE4-11	1
VE4-12	0
VE4-13	0
Total	**3682.71**

NM = Not measured
*Free product was removed from these wells using a Spill Buster™ system (i.e., a system installed within the well that continuously monitors/removes free product) and from other

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

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

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 08-11-22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	03092023DUP
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [1.0] J
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	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 [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87]	ND [0.87] J
Naphthalene	10	1.7 J, B	ND [10]	1.4 J	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [0.87]	ND [1.0]	ND [1.0]	0.93 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0] J	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 [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0] J	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	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 [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	2.1	0.48 J	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0] J	ND [1.0] J
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	DUP 6/3/2020	8/25/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	3.4 J	2.6 J	ND [5.0]	**5.1**	**5.1**	3.60	**6.4**	3.9	4.5	5.2	3.6	**7.60**	3.50	
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	1.9 J	1.2 J	ND [5.0]	2.0 J	2.2 J	1.70	2.7	1.9	2	2.7	1.9	3.50	2.2 JH		
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.10]	ND [0.10]	0.25 J	ND [0.5]		
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	2.6 J	2.4 J	ND [5.0]	3.6 J	2.5 J	2.70	3.6	3.5	NT	2.9	2.4	4.20	1.40		
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.81 J	0.40 J	0.48 J	0.34 J	0.62 J	0.39 J	0.33 J	0.42 J	ND [1.0] J		
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.46 J	0.31 J	0.42 EJ	0.42 J	0.28 J	0.52 J	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 [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87] J		
Naphthalene	10	ND [10]	ND [10]	ND [10]	1.3 J,B	1.3 J,B	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	5.6 J, B	6.6 J	ND [10]	9.3 J	10	9.00	9.4	6.2	8	NT	NT	NT	1.0		
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	1.1 J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.52 J	ND [0.40]	1.1	ND [0.12]	ND [0.19]	ND [1.0]		
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.42 J	0.76 J	0.53 J	0.74 J	0.83 J	0.49 J	0.97 J	ND [1.0]		
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	1.0 J	0.97 J	1.3	0.96 J	1.3	1.1	0.91 J	1.60	ND [1.0]		
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	1.1 J	0.56 J	0.75 J	0.55 J	ND [1.0]	0.71 J	ND [0.20]	0.80 J	ND [1.0]		
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	1.5 J	ND [5.0]	ND [5.0]	0.89 J	1.6 J	0.79 J	ND [1.0]	0.69 J	ND [0.40]	1	0.66 J	1.20	ND [1.0]		
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.6 J	0.45 J	0.50 J	0.72 J	0.46 J	0.86 J	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 [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.40]	0.29 J	ND [0.11]	ND [0.26]	ND [1.0]		
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	**23.7**	ND [0.20]	0.56 J	ND [0.12]	ND [0.12]	ND [0.22]	8.3	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.77 J	0.75 J	0.52 J	0.92 J	0.39 J	ND [0.12]	0.70 J	ND [1.0]		
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	2.1 J	1.35 J	2.05	1.51 J	2.2 J	1.81 J	0.91 J	1.60	ND [1.0]		

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

Summary of Detected Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
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 [1.0]	ND [1.0]	0.78	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.43 J	0.42 J	ND [1.0]	0.35 J	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]
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 [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.25]	ND [1.0]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	0.82 J	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	0.53 J	0.62 J	0.32 J	0.61	ND [0.10]	ND [0.10]	0.67 J	0.82	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.27 J	ND [1.0]	ND [1.0]	0.28 J	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.39 J	0.22 J	0.41 EJ	ND [0.13]	ND [0.13]	0.41 J	ND [1.0]	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 [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [1.0]	ND [0.87]
Naphthalene	10	4.0 J, B	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	2.9	NT	NT	NT	ND [0.87]	ND [1.0]	1.9 J, B	ND [10]	ND [10]	ND [10]	1.9 J	2.00	3.50	ND [1.0]	1.8 J	NT	NT	NT	ND [0.87]	ND [1.0]
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 [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.37 J	0.79 J	0.31 J	0.40 J	0.59 J	ND [0.12]	0.75 J	ND [1.0]	ND [1.0]
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 [1.0]	ND [1.0]	0.22 J	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	0.7 J	0.37 J	0.75	0.86 J	ND [0.11]	0.74 J	ND [1.0]	ND [1.0]
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 [1.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.48 J	ND [1.0]	0.25 J	0.59	ND [0.13]	ND [0.13]	0.54 J	ND [1.0]	ND [1.0]
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0] J	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]
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 [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]
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 [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	0.42 J	0.21 J	0.43 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
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 [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	0.40 J	ND [1.0]	ND [1.0]	0.26 J	ND [0.12]	ND [0.12]	0.42 J	ND [1.0]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.39]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	0.48 J	ND [3.0]	ND [3.0]	0.85 J	ND [0.33]	ND [0.33]	0.54 J	ND [1.0]	ND [1.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																		
		Field Blank											Trip Blank							
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23	9/12/12	4/2/13	9/25/13	5/18/16	8/3/17	11/28/18	8/26/21	3/8/23
1,2,4-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.20]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.20]	ND [1.0]
1,3,5-Trimethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.14]	ND [0.14]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
Benzene	1	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [0.20]	ND [0.10]	ND [0.10]	ND [0.18]	ND [0.50]	ND [0.5]	**ND [5.0]**	**ND [5.0]**	**ND [5.0]**	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [0.5]
Chlorobenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.17]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.17]	ND [1.0]
Ethylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.080]	ND [0.080]	ND [0.18]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.18]	ND [1.0]
Isopropylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.23]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
Methyl tert-butyl ether (MTBE)	10	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.070]	ND [0.070]	ND [0.22]	ND [0.87]	ND [0.87] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.22]	ND [0.87] J
Naphthalene	10	ND [10]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	NT	NT	NT	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [1.0]	ND [1.0]	ND [1.0]	NT	ND [1.0]
n-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.19]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0]
n-Propylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.24]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.24]	ND [1.0]
o-Xylene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.13]	ND [0.13]	ND [0.19]	ND [1.0]	ND [1.0] J	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.19]	ND [1.0] J
p- & m- Xylenes	NS	ND [10]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [0.50]	ND [0.20]	ND [0.20]	ND [0.32]	ND [1.0]	ND [1.0]	ND [10]	ND [10]	ND [10]	ND [2.0]	ND [2.0]	ND [0.50]	ND [0.32]	ND [1.0]
p-Isopropyltoluene	NS	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.21]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.21]	ND [1.0]
sec-Butylbenzene	5	ND[5.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.23]	ND [1.0]	ND [1.0]	ND[5.0]	ND[5.0]	ND[5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.23]	ND [1.0]
tert-Butylbenzene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.11]	ND [0.11]	ND [0.26]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	ND [0.20]	ND [0.26]	ND [1.0]
Toluene	5	ND [5.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [0.20]	ND [0.12]	ND [0.12]	ND [0.22]	ND [1.0]	ND [1.0]	ND [5.0]	ND [5.0]	ND [5.0]	ND [1.0]	ND [1.0]	0.25 J	ND [0.22]	ND [1.0]
Xylenes, Total	5	**ND [15]**	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [0.60]	ND [0.33]	ND [0.33]	ND [0.51]	ND [1.0]	ND [1.0]	**ND [15]**	**ND [15]**	**ND [15]**	ND [3.0]	ND [3.0]	ND [0.60]	ND [0.51]	ND [1.0]

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 200
ND [Reporting Limit] = Not Detected at a concentation greater than the reporting limit shown in bracket
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 3 continued
NYSDEC Site #360010
Harmon Yard Waste Water Area
OU II

Summary of Detected Volatile Organic Compounds
Groundwater Samples

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

Notes:
All results and groundwater standards/guidance values are in parts per billion (ppb)
(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000,and June 2004.
ND [Reporting Limit] = Not Detected at a 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 Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
2-Methylnaphthalene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [5.88]	ND [10.1]	ND [10.2]	ND [10.1]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [6.67]	ND [10.2]	ND [10.2]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.663	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.554	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0947	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.164	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.189	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0821	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.0615**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.0513 J	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**	**ND [2.0]**	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**0.133**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.90]	ND [2.50]	ND [2.60]	5.5	4.3	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.256	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	1.47	ND [2.50]	ND [2.40]	ND [2.20]	12	12	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.451	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	ND [5.56]	**ND [5.13]**	**ND [6.25]**	**ND [0.06]**	**ND [10.1]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0526]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	**ND [2.0]**	**ND [2.0]**	ND [2.0]	**ND [5.13]**	**ND [5.71]**	**ND [5.26]**	**ND [5.88]**	**ND [0.07]**	**ND [10.2]**	**ND [10.2]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	**ND [10.1]**	NT	ND [10.1]	0.0526 J	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	**ND [10.2]**	**NT**	ND [10.1]	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50] J	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.0842	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	ND [10.2]	ND [10.1]	0.503	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.56]	ND [5.13]	ND [6.25]	ND [0.06]	ND [10.1]	ND [10.2]	ND [10.1]	0.295	ND [2.50] J	ND [1.40]	ND [1.90]	12	10	ND [2.0]	ND [5.13]	ND [5.71]	ND [5.26]	ND [5.88]	ND [0.07]	ND [10.2]	2.8 J	ND [10.1]	1.10	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [2.0]

Compound	Groundwater Standard or Guidance Value (1)	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23	
2-Methylnaphthalene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [5.88]	ND [10.1]	ND [10]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	12	4.30 J	ND [10]	34.7	30.1	30.1	36.3	ND [2.50]	ND [2.30]	32.4	35	
Acenaphthene	20	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	9.26	ND [0.06]	3.600 J	4.7 J	5.9 J	5.9 J	6.66	5.00 J	ND [2.00]	18.0	13	
Acenaphthylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.29	ND [2.70]	ND [2.10]	4.40 J	ND [2.0]	
Anthracene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	3.44 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	2.35	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**		**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.238**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0821**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	
Benzo(a)pyrene	ND	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	**0.112**	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**		**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.275**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	0.100	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**		**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.262**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.0718**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	
Chrysene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	**ND [5.56]**	**ND [0.06]**	**ND [10.1]**	**ND [10]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**		**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.250**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**0.185**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	
Fluoranthene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	1.94 J	ND [0.06]	ND [10]	ND [10]	ND [10.1]	ND [10.1]	0.697	ND [2.90]	ND [2.50]	6.30	2.80	
Fluorene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]		ND [5.13]	2.85 J	ND [5.13]	12.3	6.75	3.200 J	6.4 J	7.8 J	7.8 J	9.31	4.50 J	ND [2.40]	31.7	16	
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [6.25]**	**ND [26.3]**	ND [5.56]	**ND [0.06]**	**ND [10.1]**	**ND [10]**	ND [10.1]	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]		**ND [5.13]**	**ND [5.26]**	**ND [5.13]**	**ND [5.88]**	**0.112**	**ND [10]**	**ND [10]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	
Naphthalene	10	ND [5.13]	ND [6.25]	**ND [26.3]**	ND [5.56]	ND [0.06]	**ND [10.1]**	**NT**	NT	ND [0.0513]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]		ND [5.13]	ND [5.26]	ND [5.13]	ND [5.88]	ND [0.06]	ND [10]	NT	NT	NT	0.974	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	
Phenanthrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]		ND [5.13]	2.41 J	1.87 J	23	10.8	2.600 J	12.2	11.1	11.1	16.8	7.20 J	ND [2.00]	59.9	30	
Pyrene	50	ND [5.13]	ND [6.25]	ND [26.3]	ND [5.56]	ND [0.06]	ND [10.1]	ND [10]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]		ND [5.13]	ND [5.26]	ND [5.13]	2.08 J	3.28	ND [10]	ND [10]	ND [10.1]	ND [10.1]	1.42	ND [2.50] J	ND [1.40]	9.30	4.40	

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

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 4-11															DAY 1													
		3/27/12	9/11/12	/11/12 DU	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/2020	########	8/11/2022	3/9/23	3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
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 [10]	ND [10]	ND [2.91]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [5.88]	ND [10.2]	2.4 J	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.30]	ND [2.20]	ND [2.0]	ND [2.0] J
Acenaphthene	20	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.80]	ND [2.00]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	2.500 J	3.3 J	4.3 J	3.64	3.30 J	ND [2.00]	3.50 J	10	4.1
Acenaphthylene	NS	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.667	ND [2.70]	ND [2.10]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.708	ND [2.50]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
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 [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.20]**	ND [2.0]	ND [2.0]
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 [10]	ND [10]	ND [0.0526]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.00]	ND [2.0]	ND [2.0]
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 [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.90]**	**ND [2.00]**	ND [2.0]	ND [2.0]
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 [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.60]	ND [2.00]	ND [2.0]	ND [2.0]
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 [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [1.80]**	**ND [2.00]**	ND [2.0]	ND [2.0]
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 [10]**	**ND [10]**	**ND [0.0526]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	**ND [2.0]**	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [1.90]**	**ND [2.30]**	ND [2.0]	ND [2.0]
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 [10]	ND [10]	ND [0.0526]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [1.90]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.0821	ND [2.90]	ND [2.50]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.40]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	3.300 J	5.8 J	9.5 J	6.96	4.90 J	ND [2.40]	6.90	17	7.2
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 [10]**	ND [10]	ND [0.0526]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]	**ND [5.13]**	**ND [5.56]**	**ND [5.13]**	**ND [12.1]**	**ND [0.06]**	**ND [10.2]**	**ND [10.1]**	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [3.20]**	**ND [2.60]**	ND [2.0]	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.71]	ND [6.06]	**ND [25.0]**	ND [6.67]	ND [0.06]	**ND [10.3]**	**NT**	NT	ND [0.0526]	ND [2.50]	ND [1.80]	ND [1.90]	ND [0.50]	ND [0.50]	ND [5.13]	ND [5.56]	ND [5.13]	**ND [12.1]**	0.141	**ND [10.2]**	**NT**	NT	0.533	ND [2.50]	ND [1.80]	ND [1.90]	ND [2.0]	ND [0.50] J
Phenanthrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50]	ND [2.00]	ND [2.20]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	0.471	ND [10.2]	5.3 J	10.7	7.27	ND [2.50]	ND [2.00]	4.80 J	29	11
Pyrene	50	ND [5.13]	ND [5.71]	ND [6.06]	ND [25.0]	ND [6.67]	ND [0.06]	ND [10.3]	ND [10]	ND [10]	ND [0.0526]	ND [2.50] J	ND [1.40]	ND [1.90]	ND [2.0]	ND [2.0]	ND [5.13]	ND [5.56]	ND [5.13]	ND [12.1]	ND [0.06]	ND [10.2]	ND [10.1]	ND [10.1]	0.185	ND [2.50] J	ND [1.40]	ND [1.90]	3.5	ND [2.0]

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date								
		Field Blank								
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/10/19	8/26/21	8/11/22	3/9/2023
2-Methylnaphthalene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [2.83]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Acenaphthene	20	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.80]	ND [2.30]	ND [2.0]	ND [2.0]
Acenaphthylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.70]	ND [2.10]	ND [2.0]	ND [2.0]
Anthracene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.30]	ND [2.0]	ND [2.0]
Benzo(a)anthracene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.20]**	**ND [2.0]**	**ND [2.0]**
Benzo(a)pyrene	ND	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.40]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(b)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Benzo(g,h,i)perylene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.00]	ND [2.0]	ND [2.0]
Benzo(k)fluoranthene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.30]**	**ND [2.00]**	**ND [2.0]**	**ND [2.0]**
Chrysene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	**ND [0.0513]**	**ND [2.40]**	**ND [2.30]**	**ND [2.0]**	**ND [2.0]**
Dibenzo(a,h)anthracene	NS	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.60]	ND [2.30]	ND [2.0]	ND [2.0]
Fluoranthene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.90]	ND [2.60]	ND [2.0]	ND [2.0]
Fluorene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Indeno(1,2,3-cd)pyrene	0.002	**ND [5.13]**	**ND [5.26]**	**ND [5.26]**	ND [5.56]	**ND [10.1]**	ND [0.0513]	**ND [3.30]**	**ND [2.60]**	**ND [2.0]**	ND [2.0]
Naphthalene	10	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	**ND [10.1]**	ND [0.0513]	ND [2.50]	ND [1.90]	ND [0.50]	ND [0.50]
Phenanthrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50]	ND [2.20]	ND [2.0]	ND [2.0]
Pyrene	50	ND [5.13]	ND [5.26]	ND [5.26]	ND [5.56]	ND [10.1]	ND [0.0513]	ND [2.50] J	ND [1.90]	ND [2.0]	ND [2.0]

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

Summary of Detected Semi-Volatile Organic Compounds
Groundwater Samples

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

Notes:

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

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

ND [Reporting Limit] = Not Detected at a 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 Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 1-2															VE 1-4													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/2022	3/9/23	3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	3/9/23	03092023DUP
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.096]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.098]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.0102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.089]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.091]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.044]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.045]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.081]	ND [0.5]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.083]	ND [0.51]	ND [0.502]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0606]	ND [0.0588]	ND [0.1]	ND [0.5]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND [0.25]	ND	ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0625]	ND [0.0606]	ND [0.102]	ND [0.51]	ND [0.502]	ND [0.0513]	ND	ND	ND	ND	ND	ND

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																												
		VE 2-1															VE 3-1													
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	8/25/21	8/11/22	3/9/23		3/27/12	9/11/19	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23		
Aroclor 1016	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.097]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.096]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.093]	ND [0.12] J	ND [0.13]	ND [0.25]		
Aroclor 1221	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.17]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.13]	ND [0.17] J	ND [0.14]	ND [0.25]		
Aroclor 1232	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.14]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.14] J	ND [0.17]	ND [0.25]		
Aroclor 1242	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.09]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.089]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.18]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1248	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1254	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.11]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.044]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.12]	ND [0.11] J	ND [0.12]	ND [0.25]		
Aroclor 1260	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.12]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.12] J	ND [0.11]	ND [0.25]		
Aroclor 1262	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.097]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.19]	ND [0.097] J	ND [0.12]	ND [0.25]		
Aroclor 1268	NS	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.082]	ND [0.505]	ND [0.507]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.13]	ND [0.25]	ND [0.25]		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.081]	ND [0.505]	ND [0.505]	ND [0.0513]	ND [0.14]	ND [0.13] J	ND [0.16]	ND [0.25]		
Total PCBs	0.09	ND [0.0513]	ND [0.0571]	ND [0.0526]	ND [0.0667]	ND [0.0625]	ND [0.101]	ND [0.505]	ND [0.507]	ND [0.0513]	ND	ND	ND	ND [0.25]	ND		ND [0.0513]	ND [0.0513]	ND [0.0526]	ND [0.0588]	ND [0.0625]	ND [0.1]	ND [0.505]	ND [0.505]	ND [0.0513]	ND	ND	ND	ND		

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

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/12 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Aroclor 1016	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.099]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.092]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.103]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	0.0805	0.0786	ND [0.0500]	0.0928	ND [0.0588]	ND [0.045]	0.914	0.711	ND [0.0513]	0.29 J	ND [0.11]	ND [0.12]	1.1 J	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0625]	ND [0.0690]	ND [0.0500]	ND [0.0667]	ND [0.0588]	ND [0.084]	ND [0.5]	ND [0.506]	0.0747	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	0.0805	0.0786	ND [0.0500]	**0.0928**	ND [0.0588]	ND [0.103]	**0.914**	**0.711**	0.0747	**0.29 J**	ND	ND	1.1	ND

Compound	Groundwater Standard or Guidance Value [(1)]	Test Location and Sample Date																			
		DAY 1														Field Blank							
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/11/19	6/3/20	8/26/21	8/10/22	3/8/23	3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	8/11/2022
Aroclor 1016	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.098]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.093]	ND [0.12]	ND [0.13]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.097]	ND [0.0513]	ND [0.093]	ND [0.25]
Aroclor 1221	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.13]	ND [0.17]	ND [0.14]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.13]	ND [0.25]
Aroclor 1232	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.14]	ND [0.17]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1242	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.091]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.18]	ND [0.11]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.09]	ND [0.0513]	ND [0.18]	ND [0.25]
Aroclor 1248	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1254	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.045]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.12]	ND [0.11]	ND [0.12]	6.5 J	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.044]	ND [0.0513]	ND [0.12]	ND [0.25]
Aroclor 1260	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.12]	ND [0.11]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Aroclor 1262	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.19]	ND [0.097]	ND [0.12]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.19]	ND [0.25]
Aroclor 1268	NS	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.083]	ND [0.51]	ND [0.504]	ND [0.0513]	ND [0.14]	ND [0.13]	ND [0.16]	ND [0.25]	ND [0.25]	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.082]	ND [0.0513]	ND [0.14]	ND [0.25]
Total PCBs	0.09	ND [0.0513]	ND [0.0556]	ND [0.0526]	ND [0.0625]	NT	ND [0.102]	ND [0.51]	ND [0.504]	ND [0.0513]	ND	ND	ND	6.5	ND	ND [0.0513]	ND [0.0556]	ND [0.0513]	ND [0.0645]	ND [0.101]	ND [0.0513]	ND	ND [0.25]

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

Summary of Detected Polychlorinated Biphenyls
Groundwater Samples

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date																
		OUII-A			OUII-B		OUII-C			OUII-D			OUII-E			OUII-F		
		8/24/21	8/10/22	3/8/23	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2022*	8/24/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/23
Aroclor 1016	NS	ND [0.13]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.91]	ND [0.26]	ND [0.50]	ND [0.13]	ND [0.26]	ND [0.25]	ND [0.13]	ND [0.25]	ND [0.25]
Aroclor 1221	NS	ND [0.14]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.99]	ND [0.26]	ND [0.50]	ND [0.14]	ND [0.26]	ND [0.25]	ND [0.14]	ND [0.25]	ND [0.25]
Aroclor 1232	NS	ND [0.17]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.17]	ND [0.26]	ND [0.25]	ND [0.17]	ND [0.25]	ND [0.25]
Aroclor 1242	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1248	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.87]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1254	NS	14.7 DJ	66 J	33 J	28 J	7 J	ND [0.12]	ND [0.26]	ND [0.25]	8.30 PJ	0.61 J	2.3	ND [0.12]	0.36 J	ND [0.25]	2.00 PJ	4.8 J	7.5
Aroclor 1260	NS	ND [0.11]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.76]	ND [0.26]	ND [0.50]	ND [0.11]	ND [0.26]	ND [0.25]	ND [0.11]	ND [0.25]	ND [0.25]
Aroclor 1262	NS	ND [0.12]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.84]	ND [0.26]	ND [0.50]	ND [0.12]	ND [0.26]	ND [0.25]	ND [0.12]	ND [0.25]	ND [0.25]
Aroclor 1268	NS	ND [0.16]	ND [1.3]	ND [1.3]	ND [0.75]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [1.20]	ND [0.26]	ND [0.50]	ND [0.16]	ND [0.26]	ND [0.25]	ND [0.16]	ND [0.25]	ND [0.25]
Total PCBs	0.09	**14.7**	**66**	**33**	**28**	**7**	ND	ND [0.26]	ND [0.25]	**8.3**	**0.61**	**2.3**	ND	**0.36**	ND [0.25]	**2**	**4.8**	**7.5**

Compound	Groundwater Standard or Guidance Value [1]	Test Location and Sample Date															
		FA4-9			FA4-11	FA4-16			PGW-2			VE4-7			VE4-9		
		8/26/21	8/10/22	3/8/2023*	8/24/21	8/24/21	8/10/22	3/8/2023*	8/24/21	8/10/22	3/8/2023*	8/25/21	8/10/22	3/8/23	8/24/21	8/10/22	3/8/2023*
Aroclor 1016	NS	ND [0.13]	ND [5.0]	ND [2.5]	ND [0.13]	ND [0.13]	J	ND [2.5]	ND [0.41]	ND [0.25]	ND [2.5]	ND [0.13]	ND [0.25]	ND [2.5]	ND [0.13]	ND [1.3]	ND [2.5]
Aroclor 1221	NS	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.14]	ND [0.14]	ND [5.0]	ND [2.5]	ND [0.45]	ND [0.25]	ND [2.5]	ND [0.14]	ND [0.25]	ND [2.5]	ND [0.14]	ND [1.3]	ND [2.5]
Aroclor 1232	NS	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.17]	ND [0.17]	ND [5.0]	ND [2.5]	ND [0.54]	ND [0.25]	ND [2.5]	ND [0.17]	ND [0.25]	ND [2.5]	ND [0.17]	ND [1.3]	ND [2.5]
Aroclor 1242	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1248	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.39]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1254	NS	ND [0.12] J	140 J	30 J	0.89 PJ	10 J	67 J	34EJ	2.1 J	4.2 J	4.7	0.35 JP	3.7 J	47 J	ND [0.12]	17 J	52 J
Aroclor 1260	NS	ND [0.11]	ND [5.0]	ND [2.5]	ND [0.11]	ND [0.11]	ND [5.0] J	ND [2.5]	ND [0.34]	ND [0.25]	ND [2.5]	ND [0.11]	ND [0.25]	ND [2.5]	ND [0.11]	ND [1.3]	ND [2.5]
Aroclor 1262	NS	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.12]	ND [0.12]	ND [5.0]	ND [2.5]	ND [0.38]	ND [0.25]	ND [2.5]	ND [0.12]	ND [0.25]	ND [2.5]	ND [0.12]	ND [1.3]	ND [2.5]
Aroclor 1268	NS	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.16]	ND [0.16]	ND [5.0]	ND [2.5]	ND [0.53]	ND [0.25]	ND [2.5]	ND [0.16]	ND [0.25]	ND [2.5]	ND [0.16]	ND [1.3]	ND [2.5]
Total PCBs	0.09	ND	**140**	**30**	**0.89**	**10**	**67**	**34**	**2.1**	**4.2**	**4.7**	**0.35**	**3.7**	**47**	ND	**17**	**52**

Notes:

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

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

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

NS = No Standard

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

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

J = Value higher than laboratory method detection limit but below laboratory reporting limit

E = Estimated value

* = NAPL sample analyzed

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

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date													
		VE 1-2													
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/11/22	Duplicate 8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.82	4.71	1.57	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	4.3	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.969 J	1.71 JN*	0.85 JN	ND [1.11]	ND [1.33]	1.53 J	2.32 J	2.4	7.5	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	3.21	21.5 N	4.48	5.52	ND [10]	28.2	20.7 JH	29	160	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	4.34	7.76	1.56*	2.32	22.2	31.2	6.66	21	**51**	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 1-4														
		3/27/12	9/12/12	4/2/13	9/25/13	5/27/14	5/20/15	5/18/16	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	8/25/21	8/11/22	3/9/23	0302023DUP
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	3.5	**36.5**	1.21	1.22	ND [0.68]	ND [2.38]	ND [4.13]	ND [4.13]	ND [2.0]	ND [2.0] J	ND [2.0] J
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.796 J	**139 N***	1.62 JN	1.26	ND [1.33]	1.24 J	1.42 J	1.42 J	ND [2.0]	2.3	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	10.8	**6060 N**	48	57.3	ND [10]	5.31 J	22.3 JH	22.3	34	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.89	**1690**	14.7*	17.8	14.4	20.7	3.55 J	3.55 J	14	6.3 J	ND [3.0] J

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 2-1												
		3/28/12	9/12/12	4/2/13	9/24/13	5/28/14	5/20/15	5/18/16	8/3/17	11/28/18	9/11/19	6/4/20	DUP	8/25/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	0.507 J	0.42 J	0.92 J	ND [1.11]	ND [0.68]	ND [2.38]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	0.137 J	0.65 JN*	0.73 JN	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.81] J	1.25 J	ND [2.0]	ND [2.0]
Copper	200	ND [5]	6.72	5.56	4.70	9.00	4.55	3.5 N	3.48	10.70	ND [10]	4.92 J	4.47 J	1.68 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.38	0.3 J	0.17 J*	ND [1.11]	8.83	23.3	23.3	ND [1.64]	ND [3.0] J	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		VE 3-1												
		3/27/12	9/11/12	4/2/13	9/25/13	5/28/14	5/19/15	5/18/16	8/3/17	11/28/18	9/11/19	6/3/20	8/25/21	3/9/23
Arsenic	25	ND [10]	4.71	6.03	ND [4.0]	5.62	9.16	16.5	19.1	26.9	ND [0.68]	ND [2.38]	11	4.9
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	3.07	5.62 N*	5.35 N	6.34	ND [1.33]	2.44 J	6.51	3
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	5.24	6.73 N	9.65	10.50	21.7 JH	3.97 J	7.86 JH	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	3.77	1.44	2.71 *	3.59	10 U	9.64	6.33	3.9

Notes:

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

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

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

NS = No Standard

J = Estimated Concentration

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

H = Result may be biased high

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

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

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

Summary of Detected Metals
Groundwater Samples

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date														
		VE 4-11														
		3/27/12	9/11/12	9/11/2012 DUP	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	ND [4.0]	2.3	0.76 J	1.67	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.37 J	0.66 JN*	0.81 JN	ND [1.11]	ND [1.33]	ND [0.81] J	0.92 J	ND [2.0]	ND [2.0]
Copper	200	7.64	10.1	8.7	ND [5]	13.7	4.44	9.24	9.02 N	7.24	ND [1.11]	ND [10]	5.53 J	8.21 JH	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.55	0.19 J	0.66 J*	ND [1.11]	11.6	24.4 JH	2.39 J	ND [3.0]	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date												
		DAY 1												
		3/27/12	9/11/12	4/2/13	9/24/13	5/27/14	5/19/15	5/17/16	8/2/17	11/27/18	9/10/19	6/3/20	8/26/21	8/10/22	3/8/23
Arsenic	25	ND [10]	12.5	ND [4.0]	ND [4.0]	ND [4.0]	10.7	10.6	10.8	12.4	ND [0.68]	ND [2.38]	10.6	11	9.4
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	ND [5]	1.31 J	1.44 JN*	0.95 JN	ND [1.11]	ND [1.33]	3.38 J	ND [0.74]	11	4.9
Copper	200	ND [5]	ND [5]	ND [5]	ND [3]	ND [3]	1.34 J	2.77 N	2.99	1.57	ND [10]	3.40 J	1.98 JH	16	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	ND [3]	1.75	0.15 J	0.41 J*	ND [1.11]	3.80 J	ND [1.25]	2.15 J	8.5	ND [3.0]

Compound	Groundwater Standard or Guidance Value[(1)]	Test Location and Sample Date										
		Field Blank										
		3/28/12	9/12/12	4/2/13	9/25/13	5/20/15	11/28/18	9/11/19	6/4/20	8/26/21	8/11/22	3/9/23
Arsenic	25	ND [10]	ND [4.0]	ND [4.0]	ND [4.0]	ND [1.0]	ND [1.11]	ND [0.68]	ND [2.38]	ND [4.13]	ND [2.0]	ND [2.0]
Chromium	50	ND [5]	ND [5]	ND [5]	ND [5]	0.431 J	ND [1.11]	ND [1.33]	ND [0.81] J	ND [0.74]	ND [2.0]	ND [2.0]
Copper	200	ND [5]	ND [5]	ND [5]	17.3	80	ND [1.11]	ND [0.49]	ND [1.23]	ND [0.89]	ND [10]	ND [10]
Lead	25	ND [3]	ND [3]	ND [3]	ND [3]	1.6	ND [1.11]	ND [1.43]	ND [1.25] JH	ND [1.64]	ND [3.0]	ND [3.0]

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.

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

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

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

Summary of Detected Metals
Groundwater Samples

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

Notes:

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

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

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

NS = No Standard

J = Estimated Concentration

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

H = Result may be biased high

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

Table 7
NYSDEC Site #360010
Harmon Yard Waste Water Area
OUII

Summary of Detected PFAS and 1,4-Dioxane
Groundwater Samples

Compound	Guidance Values[1]	Test Location and Sample Date																		
		VE 1-2	VE 1-4								VE 2-1									
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/25/21	DUP (8/25/21)	8/11/22	3/9/23	030923 DUP	8/2/17	11/28/18	DUP (11/28/18)	9/11/19	DUP (9/11/19)	6/4/20	DUP (6/4/20)	8/25/21	8/11/22	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	ND [0.79]	7.7	45	12.9	12 J	19	19	8.2	7.72	7.35	4	ND [2.0]	ND [2.0]	ND [10]	ND [10]	3.3 J	3.0 J	19	4.6	ND [1.26]
Perfluorooctanoic acid (PFOA)	6.7	5.2	29	50	51.3	15 J	44	43	12.3	7.01	6.16	7.7	ND [2.0]	ND [2.0]	ND [10]	ND [10]	4.4	6.9	23	7.3	0.844 J
Perfluorononanoic acid (PFNA)	100	1.3 J	2.8	7.1	ND [10]	4.1 J	5.0	4.9	1.9	1.23 J	ND [0.939]	2.6	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.3 J	2.8 J	2.9	ND [1.8]	ND [0.925]
Perfluorodecanoic acid (PFDA)	100	ND [0.43]	ND [0.43]	4.1	ND [10]	1.3 J	1.1 J	0.97 J	ND [1.8]	ND [1.34]	ND [1.35]	0.76 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.33]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.73]	ND [0.73]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [2.01]	ND [2.04]	ND [0.74]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [2.01]
Perfluorododecanoic acid (PFDoA)	100	1.2 J	ND [0.57]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.57]	ND [1.59]	ND [0.58]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8]	ND [1.57]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.54]	ND [0.54]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.32]	ND [1.34]	ND [0.54]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.32]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.20]	ND [0.19]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND [0.42]	ND [1.8]	ND [1.23]	ND [1.25]	0.27 J B	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [1.8] J	ND [1.23]
Perfluorohexanesulfonic acid (PFHxS)	100	7.4	9.7	11	20.3	5.3	3.9	4.0	ND [1.8]	4.62	4.43	24	3.4	5.4	ND [10]	ND [10]	11	14	41	15.4	8.79
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.70]	0.77 J	2.2	ND [10]	0.80 J	1.5 J *-	1.7 *-	ND [1.8]	ND [1.62]	ND [1.64]	ND [0.70]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	0.89 J	0.73 J	0.89 *-	ND [1.8]	ND [1.62]
Perfluorooctanesulfonic acid (PFOS)	2.7	37	62	43	63.3	34	71	73	55.5	24.1	22.7	55	16	21	42.9	38.2	56	60	81	60.5	33.5
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND [4.5]	ND [0.43]	ND *- [0.42]	ND [1.8] J	ND [2.35]	ND [2.38]	ND [1.2]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND *- [0.41]	ND [1.8]	ND [2.35]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.63]	ND [0.62]	ND [2.0]	ND [10]	ND [4.5]	2.2	1.8	ND [18]	ND [1.57]	ND [1.59]	3.9 J	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	0.42 J	ND [18] J	ND [1.57]
Perfluorobutanoic acid (PFBA)	100	ND [22]	ND [22]	10	13.4	ND [4.5]	12	12	4.1	7.20 J	11.1 J	54 J B Cl	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	3.1 J	100	4.4	ND [0.587]
Perfluoropentanoic acid (PFPeA)	100	ND [48]	ND [48]	93	14.6	10	24 *-	24 *-	19.8	12.4	11.8	ND [49]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	35 *-	ND [8.9]	0.986 J
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [38]	50	14.2	8.8	21	22	9.7	6.84	7.64	ND [39]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [9.2] J	ND [9.2] J	42	4.8	0.803 J
Perfluorobutanesulfonic acid (PFBS)	100	ND [45]	ND [45]	13	ND [10]	3.2 J	3 *-	3.1 *-	ND [1.8]	7.76	7.10	ND [45]	ND [2.0]	ND [2.0]	ND [10]	ND [10]	2.0 J	1.9 J	7.0 *-	2.8	0.965 J
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	50	ND [25]	0.85 J	ND [1.7]	ND [1.7]	ND [7.1]	ND [1.89]	ND [3.70]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [25]	ND [4.5] J	ND [4.5] J	ND [1.7]	ND [7.1]	ND [1.89]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	5.3	ND [10]	0.38 J	ND [0.82]	ND [0.84]	ND [7.1]	ND [3.65]	ND [1.91]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5] J	ND [4.5] J	ND [0.83]	ND [7.1]	ND [3.65]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5]	ND [0.52]	ND [0.50]	ND [3.6]	ND [7.11]	ND [1.43]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.50]	ND [3.6]	ND [1.41]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.5] J	ND [0.43]	ND [0.42]	ND [3.6]	ND [2.82]	ND [1.86]	NT	ND [2.0]	ND [2.0]	ND [10]	ND [10]	ND [4.5]	ND [4.5]	ND [0.41]	ND [3.6]	ND [1.83]
PFOA & PFOS		42.2	91	93	114.6	49	115	116	67.8	31.11	28.86	62.7	16	21	42.9	38.2	60.4	66.9	104	67.8	34.344
Maximum PFAS (not inc PFOA/PFOS)		7.4	9.7	93	20.3	10	92.7	93.47	55.5	56.5	57.5	24	3.4	5.4	0	0	11	14	100	60.5	8.79
Total PFAS	500	49.6	111.2	383.7	190	95.73	207.7	209.47	111.50	78.90	78.25	93.3	19.4	26.4	42.9	38.2	81.89	92.43	352.21	99.8	45.888
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	ND [100]		NT	ND [200]	ND [200]	ND [200]	NT	ND [90]	ND [90]	ND [100]	ND [100]	ND [100]

Compound	Guidance Values[1]	Test Location and Sample Date																	
		VE 3-1	VE 4-11							DAY 1	Field Blank					Trip Blank	Equipment Blank		
		8/2/17	8/2/17	11/27/18	9/10/19	6/3/20	8/24/21	8/11/22	3/9/23	8/2/17	2017	2018	FB91119	FB6420	FB-082621	3/9/23	EB-082621	8/11/2022	3/9/23
Perfluoroheptanoic acid (PFHpA)	100	3.3	ND [0.81]	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [8.9]	ND [1.28]	5.4	ND [0.67]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.31]	ND [0.42]	ND [1.8]	ND [1.32]
Perfluorooctanoic acid (PFOA)	6.7	5.6	ND [0.75]	ND [2.0]	ND [10]	ND [1.7] J	1.4 JI	ND [1.8]	ND [0.758]	18	ND [0.62]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [0.777]	ND [0.42]	ND [1.8]	ND [0.778]
Perfluorononanoic acid (PFNA)	100	1.1 J	ND [0.66]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [0.939]	2.4	ND [0.54]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.962]	ND [0.42]	ND [1.8]	ND [0.963]
Perfluorodecanoic acid (PFDA)	100	ND [0.44]	ND [0.44]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.35]	ND [0.44]	ND [0.37]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.39]	ND [0.42]	ND [1.8]	ND [1.39]
Perfluoroundecanoic acid (PFUnA)	100	ND [0.75]	ND [0.75]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [2.04]	ND [0.75]	ND [0.62]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.09]	ND [0.42]	ND [1.8]	ND [2.09]
Perfluorododecanoic acid (PFDoA)	100	ND [0.75]	1.4 J	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.59]	ND [0.58]	ND [0.49]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [1.8]	ND [1.63]
Perfluorotridecanoic acid (PFTriA)	100	ND [0.59]	ND [0.56]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.34]	ND [0.55]	ND [0.46]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.37]	ND [0.42]	ND [1.8]	ND [1.37]
Perfluorotetradecanoic acid (PFTeA)	100	ND [0.55]	ND [0.20	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8] J	ND [1.25]	ND [0.20]	ND [0.17]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.28]	ND [0.42]	ND [1.8]	ND [1.28]
Perfluorohexanesulfonic acid (PFHxS)	100	2	39	ND [2.0]	10.5	6.8	8.2	9.4	4.32	5.0	ND [0.72]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.26]	ND [0.42]	ND [1.8]	ND [1.26]
Perfluoroheptanesulfonic acid (PFHpS)	100	ND [0.72]	ND [0.72]	ND [2.0]	ND [10]	ND [4.3]	ND [0.42]	ND [1.8]	ND [1.64]	ND [0.71]	ND [0.59]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.68]	ND [0.42]	ND [1.8]	ND [1.69]
Perfluorooctanesulfonic acid (PFOS)	2.7	14	7.2	4.2	ND [10]	5.2	6.1 I	6.6	ND [1.48]	16	ND [1.1]	ND [2.0]	ND [10]	ND [1.8]	ND [0.42]	ND [1.52]	ND [0.42]	ND [1.8]	ND [1.52]
Perfluorodecanesulfonic acid (PFDS)	100	ND [1.2]	ND [1.2]	ND [2.0]	ND [10]	ND[4.3]	ND [0.42]	ND [1.8]	ND [2.38]	ND [1.2]	ND [1.0]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [2.44]	ND [0.42]	ND [1.8]	ND [2.44]
Perfluorooctane Sulfonamide (FOSA)	100	ND [0.64]	ND [0.64]	ND [2.0]	ND [10]	ND [4.3]	0.71 J	ND [18] J	ND [1.59]	ND [0.64]	ND [0.53]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.63]	ND [0.42]	ND [3.6]	ND [1.63]
Perfluorobutanoic acid (PFBA)	100	2200 B Cl	ND [23]	ND [2.0]	ND [10]	ND [4.3]	13 F2 F1	ND [8.9]	ND [0.596]	2000 B Cl	ND [0.38]	ND [2.0]	ND [10]	ND [4.4]	ND [1.7]	ND [0.611]	ND [1.7]	ND [3.6]	ND [0.611]
Perfluoropentanoic acid (PFPeA)	100	ND [50]	ND [50]	ND [2.0]	ND [10]	ND [4.3]	120 *-	ND [8.9]	0.416 J	4600 Cl	ND [0.82]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.426]	ND [0.42]	ND [1.8]	ND [0.426]
Perfluorohexanoic acid (PFHxA)	100	ND [39]	ND [40]	5.7	ND [10]	ND [9.2] J	ND [0.42]	ND [8.9]	0.731 J	ND [39]	ND [0.65]	ND [2.0]	ND [10]	ND [9.2]	ND [0.42]	ND [0.648]	ND [0.42]	ND [1.8]	ND [0.648]
Perfluorobutanesulfonic acid (PFBS)	100	ND [46]	ND [46]	15	ND [10]	ND [4.3]	43 F2 I F1 *-	ND [8.9]	1.20 J	ND [46]	ND [0.76]	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [0.870]	ND [0.42]	ND [1.8]	ND [0.871]
6:2 Fluorotelomersulfonate (6:2 FTS)	100	NT	NT	ND [2.0]	ND [25]	ND [4.3] J	ND [1.7]	ND [7.1]	ND [1.91]	NT	NT	ND [2.0]	ND [25]	ND [4.4]	1.7 J B	ND [1.96]	2.0 J B	ND [7.1]	ND [1.96]
8:2 Fluorotelomersulfonate (8:2 FTS)	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.85]	ND [7.1]	ND [3.70]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.84]	ND [3.79]	ND [0.85]	ND [7.1]	ND [3.80]
NMeFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3]	ND [0.51]	ND [3.6]	ND [1.43]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.51]	ND [1.46]	ND [0.51]	ND [3.6]	ND [1.46]
NEtFOSAA	100	NT	NT	ND [2.0]	ND [10]	ND [4.3] J	ND [0.42]	ND [3.6]	ND [1.86]	NT	NT	ND [2.0]	ND [10]	ND [4.4]	ND [0.42]	ND [1.91]	ND [0.42]	ND [3.6]	
PFOA & PFOS	NS	19.6	7.2	4.2	-	-	7.5	6.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum PFAS (not inc PFOA/PFOS)	NS	3.3	39	15	10.5	6.8	184.91	9.4	4.32	5.4	ND	ND	ND	1.7	1.7	ND	ND	ND	ND
Total PFAS	500	24.9	46.2	24.9	10.5	12	192.41		16	46.8	ND	ND	ND	1.7	1.7	ND	2.0	ND	ND
1,4-Dioxane	350	NT	NT	ND [200]	ND [200]	ND [90]	ND [100]	ND [100]	ND [100]	NT	ND [200]	NT	ND [90]	ND [100]	ND [100]		ND [100]		

Notes:

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

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

NT = Not Tested

J = Estimated Concentration

B = Compound was found in the blank and samples

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

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

[2]Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-dioxane guidance values referenced in 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1

I = Value is EMPC (estimated maximum possible concentration)

F1 = MS and/or MSD exceeds control limits

F2 = MS/MSD RPD exceeds control limits

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

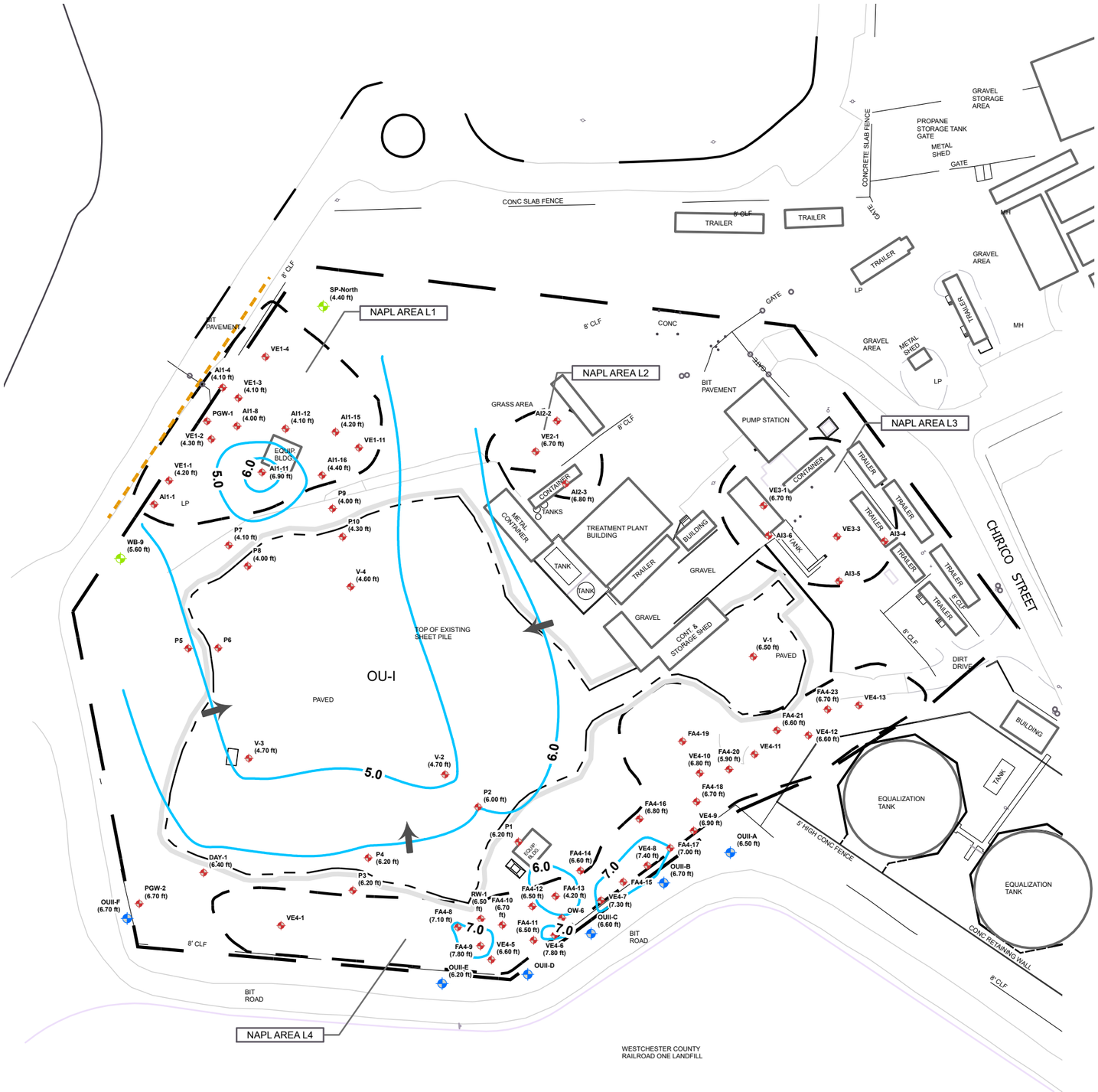
Table 8
NYSDEC Site #360010
Harmon Yard Waste Water Area

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

Date Range		OUII-A	OUII-B	OUII-C	OUII-D	OUII-E	OUII-F
October 4, 2016 - November 30, 2016	Depth to Static Water Level	4.58-5.04	4.36-5.04	4.58-5.18	4.40-4.97	4.55-5.05	2.87-5.09
	Range of Free Product Thickness (ft.)	0.7-3.0	1.3-3.2	0	1.9-3.0	0	0.0-1.3
	Average Free Product Thickness (ft.)	2.3	2.5	0	2.5	0	0.68
December 1, 2016 - February 28, 2017	Depth to Static Water Level	5.53-6.19	5.58-6.11	5.99-6.76	5.47-5.96	5.56-6.18	5.8-7.02
	Range of Free Product Thickness (ft.)	0.0-0.55	0.0-0.96	0	1.65-2.15	0	0-0.93
	Average Free Product Thickness (ft.)	0.36	0.39	0	1.8	0	0.29
March 1, 2017 - May 31, 2017	Depth to Static Water Level	5.56-6.86	5.46-6.89	5.53-7.45	5.3-6.77	5.57-6.89	5.27-8.05
	Range of Free Product Thickness (ft.)	0.0-0.94	0.08-1.97	0.0-1.24	0.0-1.84	0	0.0-0.28
	Average Free Product Thickness (ft.)	0.29	1.1	0.099	1.3	0	0.043
June 1, 2017 - July 31, 2017	Depth to Static Water Level	5.37-6.28	5.12-6.13	4.82-6.31	5.19-6.18	5.28-6.26	4.43-6.69
	Range of Free Product Thickness (ft.)	0.04-1.28	0.68-1.7	0	0.5-1.85	0	0-0.26
	Average Free Product Thickness (ft.)	1.3	1.7	0	1.9	0	0.26
September 1, 2017 - November 30, 2017	Depth to Static Water Level	9.36-9.82	9.28-9.84	9.18-9.59	9.57-9.93	9.44-9.82	7.19-7.82
	Range of Free Product Thickness (ft.)	0.67-2.01	1.39-2.36	0-1.82	1.78-2.24	0	0.40-2.78
	Average Free Product Thickness (ft.)	1.3	1.9	0.12	2.0	0	2.0
December 1, 2017 - February 28, 2018	Depth to Static Water Level	8.31-10.00	8.20-10.02	7.25-9.81	8.46-10.18	8.34-10.07	4.18-8.11
	Range of Free Product Thickness (ft.)	0-2.26	0-2.71	0	0.48-2.37	0	0.35-3.19
	Average Free Product Thickness (ft.)	1.1	1.9	0	1.8	0	1.9
March 1, 2018 - May 31, 2018	Depth to Static Water Level	7.75-8.54	7.77-9.11	6.85-8.09	7.97-8.76	7.92-8.52	3.87-5.61
	Range of Free Product Thickness (ft.)	0-0.59	0-1.36	0	0.02-1.88	0	0.01-0.24
	Average Free Product Thickness (ft.)	0.15	0.90	0	0.94	0	0.1
June 1, 2018 - August 31, 2018	Depth to Static Water Level	8.15-9.15	7.96-9.20	7.41-8.96	8.10-9.32	8.24-9.37	4.43-6.81
	Range of Free Product Thickness (ft.)	0-0.24	0.02-1.38	0	0.1-1.67	0	0-0.04
	Average Free Product Thickness (ft.)	0.084	1.0	0	1.1	0	0.009
September 1, 2018 - November 30, 2018	Depth to Static Water Level	7.18-8.63	7.31-8.56	6.56-8.09	7.12-8.81	7.62-8.69	3.29-5.91
	Range of Free Product Thickness (ft.)	0-0.26	0-1.75	0	0-1.37	0	0-0.03
	Average Free Product Thickness (ft.)	0.043	0.44	0	0.37	0	0.011
January 1, 2019 - May 31, 2019	Depth to Static Water Level	6.61-7.82	6.83-7.86	6.15-7.38	6.12-7.59	6.92-7.89	2.72-4.86
	Range of Free Product Thickness (ft.)	0-0.02	0.86-2.80	0	0-0.62	0	0
	Average Free Product Thickness (ft.)	0.009	1.6	0	0.10	0	0
June 1, 2019 - September 30, 2019	Depth to Static Water Level	6.97-8.95	7.08-8.93	8.50-8.62	6.58-9.01	7.26-9.03	3.45-6.78
	Range of Free Product Thickness (ft.)	0-0.12	0-1.86	0	0-1.27	0	0-0.01
	Average Free Product Thickness (ft.)	0.009	0.65	0	0.91	0	0.002
October 1, 2019 - December 31, 2019	Depth to Static Water Level	7.50-9.07	7.40-9.05	6.75-9.00	7.50-9.36	7.75-9.30	3.85-9.65
	Range of Free Product Thickness (ft.)	0-0.57	0-1.06	0	0.25-1.50	0	0-0.15
	Average Free Product Thickness (ft.)	0.21	0.3	0	0.81	0	0.03
January 1, 2020 - March 31, 2020	Depth to Static Water Level	6.96-8.30	7.25-8.18	6.86-9.35	7.09-8.36	7.71-8.35	3.96-5.46
	Range of Free Product Thickness (ft.)	0.07-1.38	0-0.48	0	0-0.7	0	0-0.24
	Average Free Product Thickness (ft.)	0.3	0.27	0	0.17	0	0.08
April 1, 2020 - June 30, 2020	Depth to Static Water Level	7.65-8.71	7.50-8.57	7.18-8.61	7.12-8.89	7.79-8.81	4.10-8.53
	Range of Free Product Thickness (ft.)	0-0.01	0.27-0.58	0-0.01	0-1.2	0	0.01-0.44
	Average Free Product Thickness (ft.)	0.004	0.40	0.001	0.35	0	0.20
July 1, 2020 - September 30, 2020	Depth to Static Water Level	8.72-9.24	8.56-9.11	8.49-9.17	8.86-9.42	8.95-9.43	6.70-7.29
	Range of Free Product Thickness (ft.)	0.04-1.05	0.24-0.96	0	0.05-1.56	0	0.01-0.60
	Average Free Product Thickness (ft.)	0.43	0.62	0	0.99	0	0.13
October 1, 2020 - December 31, 2020	Depth to Static Water Level	8.12-9.21	7.91-9.05	7.46-9.50	7.66-9.41	8.22-9.33	4.67-7.18
	Range of Free Product Thickness (ft.)	0-0.30	0-0.59	0	0-1.42	0	0.03-1.54
	Average Free Product Thickness (ft.)	0.086	0.14	0	0.34	0	0.70
January 1, 2021 - March 31, 2021	Depth to Static Water Level	7.45-8.40	7.33-8.64	7.08-8.49	6.69-8.65	7.78-8.52	4.03-6.04
	Range of Free Product Thickness (ft.)	0-.01	0-0.07	0-0.01	0-0.27	0	0.03-0.54
	Average Free Product Thickness (ft.)	0.001	0.01	0.00	0.05	0	0.28
April 1, 2021 - June 30, 2021	Depth to Static Water Level	7.91-8.78	7.67-8.63	7.32-8.50	7.12-8.70	8.15-8.91	4.27-6.02
	Range of Free Product Thickness (ft.)	0-.01	0.01-0.37	0	0-0.70	0	0.04-0.56
	Average Free Product Thickness (ft.)	0.001	0.15	0	0.099	0	0.31
July 1, 2021 - September 30, 2021	Depth to Static Water Level	7.78-9.34	7.85-9.16	7.45-9.25	7.85-9.43	7.89-9.38	4.42-9.61
	Range of Free Product Thickness (ft.)	0-0.63	0-1.05	0	0-1.43	0	0.01-0.49
	Average Free Product Thickness (ft.)	0.22	0.39	0	0.52	0	0.09
October 1, 2021 - December 31, 2021	Depth to Static Water Level	7.5-8.73	7.58-9.21	6.99-8.21	7.02-9.86	7.53-8.55	4.41-6.16
	Range of Free Product Thickness (ft.)	0-0.2	0-0.81	0	0.01-1.25	0	0-0.01
	Average Free Product Thickness (ft.)	0.006	0.17	0	0.37	0	0.008
January 1, 2022 - March 31, 2022	Depth to Static Water Level	7.58-8.60	7.14-8.42	7.04-8.49	6.74-8.65	7.81-8.45	4.32-5.70
	Range of Free Product Thickness (ft.)	0-0.01	0.04-0.88	0	0-0.13	0	0-0.01
	Average Free Product Thickness (ft.)	0.008	0.33	0	0.022	0	0.0008
April 1, 2022 - June 30, 2022	Depth to Static Water Level	6.78-8.45	6.95-825	6.34-7.89	6.39-8.45	7.13-8.18	3.38-5.74
	Range of Free Product Thickness (ft.)	0-0.03	0-0.4	0	0-0.17	0	0-0.01
	Average Free Product Thickness (ft.)	0.005	0.12	0	0.035	0	0.0008
July 1, 2022 - September 30, 2022	Depth to Static Water Level	8.19-9.14	8.13-9.42	8.01-9.19	8.05-9.75	8.22-9.41	6.00-7.74
	Range of Free Product Thickness (ft.)	0-0.29	0.01-0.91	0	0.01-1.80	0	0-0.30
	Average Free Product Thickness (ft.)	0.08	0.25	0	0.75	0	0.04
October 1, 2022 - December 31, 2022	Depth to Static Water Level	8.38-9.47	8.00-9.42	7.61-9.42	8.33-9.35	8.43-9.60	4.42-7.44
	Range of Free Product Thickness (ft.)	0-1.34	0-1.37	0	0.01-2.02	0	0.01-2.00
	Average Free Product Thickness (ft.)	0.43	0.55	0	1.07	0	0.77
January 1, 2023 - March 31, 2023	Depth to Static Water Level	7.56-8.68	7.23-8.50	6.51-8.49	7.57-8.59	7.92-8.81	3.56-6.06
	Range of Free Product Thickness (ft.)	0-0.27	0-0.10	0-0.03	0.27-2.02	0-0.07	0-0.29
	Average Free Product Thickness (ft.)	0.033	0.02	0	0.83	0.007	0.04
April 1, 2023 - June 30, 2023	Depth to Static Water Level	7.81-9.13	7.89-9.52	7.46-8.92	8.87-10.93	8.16-9.31	4.44-6.52
	Range of Free Product Thickness (ft.)	0-0.13	0.01-0.72	0-0.01	0.18-1.64	0-0.01	0-0.17
	Average Free Product Thickness (ft.)	0.02	0.35	0.001	0.93	0.001	0.04

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

FIGURES



NOTES:

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

N

LEGEND:

- VE 4-6 (7.82 ft) — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), or existing monitoring well and designation
- Groundwater elevation for water level measurement made May 2023
- Off-site monitoring well installed September 2016
- Monitoring wells near the southern terminus of the sheet pile wall in NAPL Area L1
- 4.0 — Groundwater contour
- Apparent groundwater flow direction
- OU-II NAPL area boundaries
- Approximate location of sheet pile wall around remediated former lagoon area (OU-I)
- Approximate location of L1 sheet pile wall
- Extent of OU-I final cover system
- OU-II Boundary

0 40 80 160 Feet

PROJECT MANAGER	RLK
DRAWN BY	CPS
SCALE	As Noted
DATE	08-2023
DATE DRAWN	08-2023
DATE ISSUED	08-04-2023

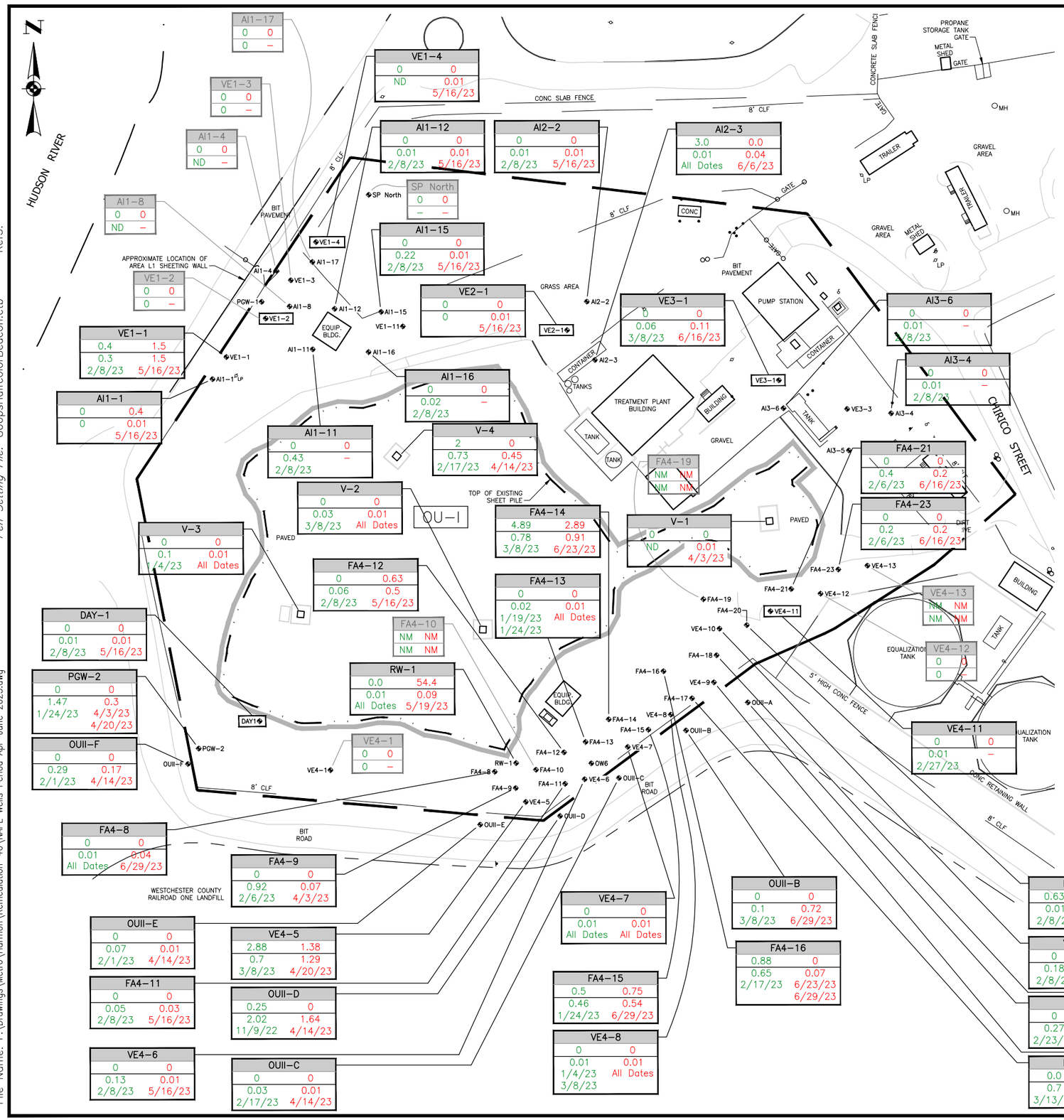
DAY ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERING CONSULTANTS
ROCHESTER, NEW YORK 14606

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

Drawing Title
Groundwater Contour Map: May 2023

Project No.
23-3690M

FIGURE 1



SITE PLAN
1" = 80'

0' 80' 160' 240'

NOTES:

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

LEGEND:

- VE1–3 — Former Vapor Extraction (VE), Air Inlet (AI), Forced Air Injection (FA), Existing Monitoring Well Or Product Recovery Well (RW) and Designation
- VE1–2 — Long–Term Monitoring Well
- Approximate Location Of Sheet Pile Wall Around Remediated Former Lagoon Area (OU–I)
- Extent Of OU–I Final Cover System
- OU–II Boundary
- V–1 — OU–I Contingency Vapor Extraction System Wells
- FA4–14 (4.89 / 2.89; 0.78 / 0.91; 3/8/23 / 6/23/23) — Long–Term Monitoring Well Identification; Free Product Removed (Gallons) During Report Period; Maximum Free Product Thickness (Feet) Measured During Report Period With Date Of Measurement
- Measurements Made During The Report Period January 1, 2023 Through March 31, 2023 Shown In Green (Left)
- Measurements Made During The Report Period April 1, 2023 Through June 30, 2023 Shown In Red (Right)
- NM — Well Not Measured
- ND — Not Detected

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

PROJECT MANAGER	HMM
DRAWN BY	RJM/CPS/TW
SCALE	As Noted
DATE	8/2023
DATE DRAWN	8/2/2023
DATE ISSUED	8/2/2023

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

DRAWING TITLE
Summary Of Free Product Removal For The Report Periods January - March 2023 and April - June 2023

PROJECT NO.
23-3690M

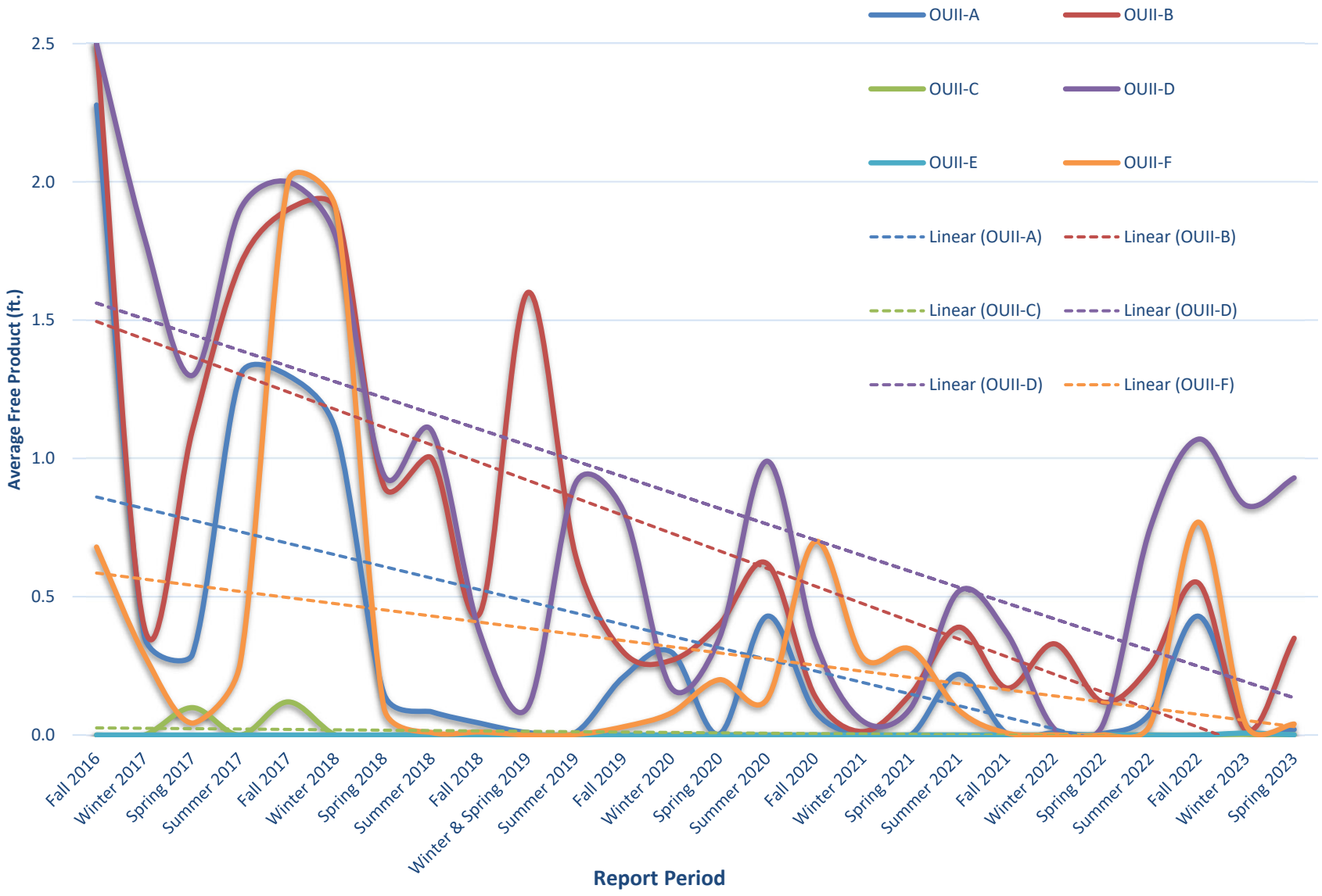
FIGURE 2

Ref1:
Ref2:
Ref3:

Xerox432AnsiB–2; 11 x 17
Layout Name: Layout1
Pen Setting File: 80OpsHalfcolorBeacon.ctb

Time Plotted: Wednesday, August 2, 2023 8:13:05 AM
File Name: P:\Drawings\Metro\Harmon\Remediation–46\NAPL Wells Period Apr–June 2023.dwg

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



ATTACHMENT A

Well Monitoring Logs and Free Product Removal Records
April 1, 2023 through June 30, 2023

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.25	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.21	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P3 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.52	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.18	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	5.03	0	0	

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

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P7 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.37	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	12.96	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.02	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: P10 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	12.84	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	16.08	16.09	0.01	0	
5/10/2023	-	16.01	0	0	
6/16/2023	-	16.05	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	17.06	17.07	0.01	0	
5/10/2023	16.52	16.53	0.01	0	
6/16/2023	16.48	16.49	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	16.75	16.76	0.01	0	
5/10/2023	16.19	16.20	0.01	0	
6/16/2023	16.23	16.24	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: V-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	15.94	16.23	0.29	0	
4/14/2023	16.000	16.45	0.45	0	
4/20/2023	16.12	16.51	0.39	0	
4/27/2023	15.98	16.09	0.11	0	
5/10/2023	15.37	15.45	0.08	0	
5/14/2023	15.38	15.52	0.14	0	
5/23/2023	15.78	15.88	0.1	0	
5/31/2023	15.95	16.32	0.37	0	
6/5/2023	15.98	16.31	0.33	0	
6/6/2023	15.98	16.31	0.33	0	
6/14/2023	16.08	16.15	0.07	0	
6/23/2023	16.21	16.43	0.22	0	
6/29/2023	16.1	16.33	0.23	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-1 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	13.68	13.69	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
1/0/1900	-	9.99	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-8 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.09	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-11 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	10.8	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-12 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	16.65	16.66	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-15 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	18.15	18.16	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.53	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI1-17 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	11.73	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: SP-North Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	9.48	0	0	
4/14/2023	-	9.61	0	0	
4/20/2023	-	9.6	0	0	
4/27/2023	-	9.25	0	0	
5/10/2023	-	8.86	0	0	
5/19/2023	-	8.8	0	0	
5/23/2023	-	9.25	0	0	
5/31/2023	-	9.85	0	0	
6/6/2023	-	9.44	0	0	
6/14/2023	-	9.85	0	0	
6/23/2023	-	9.68	0	0	
6/29/2023	-	9.69	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	8.1	9.6	1.5	1.5	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-2 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	8.95	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-3 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	8.26	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE-1-4 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	13.68	13.69	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: WB-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	8.33	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI2-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	14.68	14.69	0.01	0	

Metro-North Railroad Free Product Recovery Report

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

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/3/2023	15.28	15.29	0.01	0	Drum-1.37
4/14/2023	15.39	15.4	0.01	0	Drum-1.43
4/20/2023	15.42	15.43	0.01	0	Drum-1.52
4/27/2023	15.26	15.27	0.01	0	Drum-1.60
5/10/2023	14.90	14.91	0.01	0	Drum-1.64
5/14/2023	14.86	14.87	0.01	0	Drum-1.65
5/16/2023	14.99	15.00	0.01	0	
5/23/2023	15.26	15.27	0.01	0	Drum-1.69
5/31/2023	15.30	15.31	0.01	0	Drum-1.70
6/6/2023	15.34	15.38	0.04	0	Drum-1.69
6/14/2023	15.55	15.56	0.01	0	Drum-1.90
6/23/2023	15.56	15.57	0.01	0	Drum-2.14
6/29/2023	15.48	15.49	0.01	0	Drum-2.15

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/13/2023 stated '1.25 ft'. Approximately 15.6 gallons of free product recovered during report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE2-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	10.80	10.81	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-4 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.59	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-5 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: AI3-6 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	16.35	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE3-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	11.19	11.2	0.01	0	
5/10/2023	10.76	10.84	0.08	0	
6/16/2023	10.85	10.96	0.11	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: DAY-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	15.47	15.48	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments***
4/3/2023	16.25	16.26	0.01	0	Drum-0.52
4/14/2023	16.41	16.42	0.01	0	Drum-0.58
4/20/2023	16.55	16.56	0.01	0	Drum-0.64
4/27/2023	16.31	16.32	0.01	0	Drum-0.55
5/10/2023	15.78	15.79	0.01	0	Drum-0.57
5/19/2023	15.51	15.52	0.01	0	Drum-0.59
5/23/2023	16.24	16.25	0.01	0	Drum-0.56
5/31/2023	16.38	16.39	0.01	0	Drum-0.55
6/6/2023	16.48	16.49	0.01	0	
6/14/2023	16.64	16.65	0.01	0	Drum-0.55
6/23/2023	16.79	16.8	0.01	0	Drum-0.55
6/29/2023	16.65	16.69	0.04	0	Drum-0.56

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be 2.5 ft and equal to approximately 50 gallons. Comment on 3/21/2023 stated 'drum 0.54 ft'. Free product not removed from well FA4-8 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-9 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	7.11	7.18	0.07	0	
5/10/2023	6.58	6.59	0.01	0	
6/16/2023	6.59	6.61	0.02	0	

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

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-11 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	11.28	11.29	0.01	0	
4/14/2023	11.45	11.46	0.01	0	
4/20/2023	11.49	11.5	0.01	0	
4/27/2023	10.74	10.75	0.01	0	
5/10/2023	10.57	10.58	0.01	0	
5/16/2023	10.92	10.95	0.03	0	
5/19/2023	10.48	10.49	0.01	0	
5/23/2023	11.18	11.19	0.01	0	
5/31/2023	11.18	11.19	0.01	0	
6/6/2023	11.54	11.55	0.01	0	
6/14/2023	11.66	11.67	0.01	0	
6/23/2023	11.78	11.79	0.01	0	
6/29/2023	16.52	16.53	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	13.85	14.35	0.50	0.63	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-13R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	10.55	10.56	0.01	0	
4/5/2023	10.85	10.86	0.01	0	
4/14/2023	10.80	10.81	0.01	0	
4/27/2023	10.44	10.45	0.01	0	
5/10/2023	10.19	10.2	0.01	0	
5/16/2023	10.34	10.35	0.01	0	
5/19/2023	10.2	10.21	0.01	0	
5/23/2023	10.62	10.63	0.01	0	
5/31/2023	10.84	10.85	0.01	0	
6/6/2023	10.97	10.98	0.01	0	
6/14/2023	11.07	11.08	0.01	0	
6/23/2023	11.22	11.23	0.01	0	
6/29/2023	11.01	11.02	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-14 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	13.05	13.69	0.64	0.63	
4/14/2023	13.29	13.61	0.32	0	
4/20/2023	13.32	13.62	0.3	0	
4/27/2023	13.00	13.66	0.66	0	
5/10/2023	12.75	12.98	0.23	0	
5/19/2023	12.62	12.82	0.2	0	
5/23/2023	13.06	13.49	0.43	0	
5/31/2023	13.18	13.81	0.63	0.88	
6/6/2023	13.28	13.59	0.31	0	
6/14/2023	13.38	13.71	0.33	0	
6/23/2023	13.51	14.42	0.91	1.38	
6/29/2023	13.35	13.42	0.07	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-15R Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	10.06	10.21	0.15	0	
4/14/2023	10.25	10.56	0.31	0	
4/20/2023	10.35	10.65	0.3	0	
4/27/2023	9.95	10.04	0.09	0	
5/10/2023	9.61	9.97	0.36	0	
5/16/2023	9.81	9.98	0.17	0	
5/19/2023	9.50	9.92	0.42	0	
5/23/2023	10.11	10.14	0.03	0	
5/31/2023	10.21	10.62	0.41	0	
6/6/2023	10.38	10.71	0.33	0	
6/14/2023	10.41	10.91	0.5	0	
6/23/2023	10.55	10.89	0.34	0	
6/29/2023	10.48	11.02	0.54	0.75	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-16 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	14.10	14.13	0.03	0	
4/14/2023	14.31	14.33	0.02	0	
4/20/2023	14.32	14.33	0.01	0	
4/27/2023	14.06	14.12	0.06	0	
5/10/2023	13.67	13.69	0.02	0	
5/19/2023	13.52	13.53	0.01	0	
5/23/2023	14.09	14.11	0.02	0	
5/31/2023	14.24	14.25	0.01	0	
6/6/2023	14.36	14.39	0.03	0	
6/14/2023	14.52	14.56	0.04	0	
6/23/2023	14.64	14.71	0.07	0	
6/29/2023	14.55	14.62	0.07	0	

Metro-North Railroad Free Product Recovery Report

Metro-North Yard: Harmon (OU I) Well ID: FA4-17R Diameter: 4 in.

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments
4/3/2023	10.24	10.84	0.6	1.38	
4/14/2023	10.51	10.92	0.41	0	
4/20/2023	10.55	10.97	0.42	0	
4/27/2023	10.15	10.31	0.16	0	
5/10/2023	9.80	10.09	0.29	0	
5/19/2023	9.72	9.93	0.21	0	
5/23/2023	10.25	10.43	0.18	0	
5/31/2023	10.38	10.91	0.53	0.75	
6/6/2023	11.52	11.64	0.12	0	
6/14/2023	10.64	10.68	0.04	0	
6/23/2023	10.76	11.11	0.35	0	
6/29/2023	10.61	11.25	0.64	0.75	

*Measured height of Free Product accumulated in drum. Spill Buster ™formerly located in well, removed in 2020. No comments during current report period re. installation of Spill Buster or drum measurements.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-18 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	12.62	13.15	0.53	0.63	
4/14/2023	12.90	12.91	0.01	0	
4/20/2023	13.12	13.13	0.01	0	
4/27/2023	12.63	12.65	0.02	0	
5/10/2023	12.22	12.32	0.1	0	
5/19/2023	12.2	12.31	0.11	0	
5/23/2023	12.71	12.77	0.06	0	
5/31/2023	12.54	12.78	0.24	0	
6/6/2023	12.92	12.99	0.07	0	
6/14/2023	13.01	13.06	0.05	0	
6/23/2023	13.13	13.38	0.25	0	
6/29/2023	13.00	13.01	0.01	0	

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

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-20 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	12.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-21 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	13.55	13.7	0.15	0	
5/10/2023	13.08	13.27	0.19	0	
6/16/2023	13.12	13.32	0.20	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: FA4-23 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	14.96	14.98	0.02	0	
5/10/2023	12.55	12.74	0.19	0	
6/16/2023	12.40	12.6	0.20	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: PGW-2 Diameter: 2 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	5.89	6.19	0.30	0	
4/14/2023	6.50	6.75	0.25	0	
4/20/2023	6.55	6.85	0.30	0	
4/27/2023	5.46	5.48	0.02	0	
5/10/2023	5.49	5.55	0.06	0	
5/19/2023	5.21	5.29	0.08	0	
5/23/2023	5.15	5.21	0.06	0	
5/31/2023	6.72	7.01	0.29	0	
6/6/2023	6.84	6.98	0.14	0	
6/14/2023	7.12	7.13	0.01	0	
6/23/2023	7.31	7.39	0.08	0	
6/29/2023	7.12	7.21	0.09	0	

Metro-North Railroad Free Product Recovery Report

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

Date	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Free Product Recovered (gal)	Comments*
4/3/2023	14.45	14.47	0.02	0	Drum-1.91
4/14/2023	14.71	14.72	0.01	0	Drum-2.30
4/20/2023	14.75	14.76	0.01	0	Drum-2.31
4/27/2023	14.38	15.01	0.63	0	Drum-2.28
5/10/2023	14.28	14.29	0.01	0	Drum-0.17
5/19/2023	14.2	14.29	0.09	0	Drum-0.18
5/23/2023	14.62	14.63	0.01	0	Drum-0.18 Replaced oil line
5/31/2023	14.65	14.66	0.01	0	Drum-0.70
6/6/2023	15.36	15.37	0.01	0	Drum-0.55
6/14/2023	14.88	14.89	0.01	0	Drum-1.22
6/23/2023	15.02	15.03	0.01	0	Drum-1.82
6/29/2023	14.95	14.96	0.01	0	

*Measured height of Free Product accumulated in drum. Height of drum is assumed to be approximately 2.5 ft and equal to approximately 50 gallons. Comment on 3/28/2023 stated 'drum 0.54 ft'. Approximately 54.4 gallons of ree product removed from well RW-1 in report period.

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-1 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	7.29	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-5 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	9.35	9.74	0.39	0	
4/14/2023	9.59	9.97	0.38	0	
4/20/2023	9.70	10.99	1.29	0	
4/27/2023	9.40	9.88	0.48	0	
5/10/2023	8.65	9.01	0.36	0	
5/19/2023	8.72	9.20	0.48	0	
5/23/2023	9.49	9.74	0.25	0	
5/31/2023	9.05	9.47	0.42	0	
6/6/2023	9.65	9.89	0.24	0	
6/14/2023	9.76	9.99	0.23	0	
6/23/2023	9.85	10.61	0.76	1.38	
6/29/2023	9.65	9.74	0.09	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-6 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	6.65	6.75	0.1	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-7 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	7.53	7.54	0.01	0	
5/10/2023	6.72	6.73	0.01	0	
6/16/2023	6.81	6.82	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-8 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	7.71	7.72	0.01	0	
5/10/2023	6.98	6.99	0.01	0	
6/16/2023	7.00	7.01	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-9 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	8.13	8.14	0.01	0	
5/10/2023	7.67	7.69	0.02	0	
6/16/2023	7.70	7.71	0.01	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-10 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	11.85	12.05	0.2	0	

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

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-12 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
5/16/2023	-	13.41	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU I) Well ID: VE4-13 Diameter: 4 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
Not measured					

OFF-SITE WELLS

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-A Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	7.95	0	0	
4/14/2023	-	8.65	0	0	
4/20/2023	-	8.85	0	0	
4/27/2023	-	8.31	0	0	
5/10/2023	-	7.96	0	0	
5/19/2023	-	7.86	0	0	
5/23/2023	-	7.81	0	0	
5/31/2023	-	8.62	0	0	
6/6/2023	-	8.84	0	0	
6/14/2023	-	8.88	0	0	
6/23/2023	9.02	9.13	0.11	0	
6/29/2023	9.00	9.13	0.13	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-B Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	8.03	8.04	0.01	0	
4/14/2023	8.5	8.78	0.28	0	
4/20/2023	8.35	8.82	0.47	0	
4/27/2023	7.88	7.98	0.1	0	
5/10/2023	7.81	8.02	0.21	0	
5/19/2023	7.78	7.99	0.21	0	
5/23/2023	7.77	7.89	0.12	0	
5/31/2023	8.45	8.9	0.45	0	
6/6/2023	8.68	9.31	0.63	0	
6/14/2023	8.58	8.86	0.28	0	
6/23/2023	8.85	9.51	0.66	0	
6/29/2023	8.8	9.52	0.72	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-C Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	7.73	0	0	
4/14/2023	8.45	8.46	0.01	0	
4/20/2023	-	8.18	0	0	
4/27/2023	-	7.47	0	0	
5/10/2023	-	7.75	0	0	
5/19/2023	-	7.52	0	0	
5/23/2023	-	7.46	0	0	
5/31/2023	-	8.51	0	0	
6/6/2023	-	8.76	0	0	
6/14/2023	-	8.75	0	0	
6/23/2023	-	8.92	0	0	
6/29/2023	-	8.88	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-D Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	8.18	9.32	1.14	0	
4/14/2023	8.36	10	1.64	0	
4/20/2023	8.55	9.95	1.4	0	
4/27/2023	8.16	8.87	0.71	0	
5/10/2023	7.95	9.5	1.55	0	
5/13/2023	8.64	9.59	0.95	0	
5/19/2023	8.00	9.48	1.48	0	
5/23/2023	9.02	9.46	0.44	0	
6/6/2023	10.41	10.59	0.18	0	
6/14/2023	8.55	9.33	0.78	0	
6/23/2023	10.41	10.83	0.42	0	
6/29/2023	10.50	10.93	0.43	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-E Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	-	8.16	0	0	
4/14/2023	8.82	8.83	0.01	0	
4/20/2023	-	8.65	0	0	
4/27/2023	-	8.21	0	0	
5/10/2023	-	8.31	0	0	
5/19/2023	-	8.22	0	0	
5/23/2023	-	8.19	0	0	
5/31/2023	-	8.76	0	0	
6/6/2023	-	8.91	0	0	
6/14/2023	-	8.83	0	0	
6/23/2023	-	9.24	0	0	
6/29/2023	-	9.31	0	0	

Metro-North Railroad Free Product Recovery Report					
Metro-North Yard: Harmon (OU II) Well ID: OUII-F Diameter: 1 in.					
Date	**Depth to Free Product (ft)**	**Depth to Water (ft)**	**Free Product Thickness (ft)**	**Free Product Recovered (gal)**	**Comments**
4/3/2023	4.95	5.12	0.17	0	
4/14/2023	5.81	5.98	0.17	0	
4/20/2023	5.75	5.78	0.03	0	
4/27/2023	4.43	4.44	0.01	0	
5/10/2023	4.75	4.76	0.01	0	
5/19/2023	-	4.52	0	0	
5/23/2023	-	4.49	0	0	
5/31/2023	-	6.1	0	0	
6/6/2023	-	6.45	0	0	
6/14/2023	-	6.49	0	0	
6/23/2023	6.43	6.45	0.02	0	
6/29/2023	6.51	6.52	0.01	0	

ATTACHMENT B

Data Usability Summary Reports

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Chemtech SDG#K4871
May 4, 2023
Sampling date: 9/10/2019

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Chemtech SDG#K4871 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D), PCB (8082A) and Inorganics (6010C).

DUSR ID	Sample ID	Laboratory ID
1	VE-4-11	K4871-01
2	VE-4-11MS	K4871-02
3	VE-4-11MSD	K4871-03
4	DAY-1	K4871-04
5	VE-1-4	K4871-05
6	VE-1-2	K4871-06
7	VE-2-1	K4871-07
8	VE-3-1	K4871-08
9	FB-91119	K4871-09

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except some of the areas of the internal standards were rounded when applied to Form 8B. The unrounded values were used, so no further action is required. Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in the continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
BG042868.D	Pyrene	32.5	UJ/J	1-3, 6

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD/Duplicate
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except a target analyte was detected in a blank. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as estimated high in associated samples in which it was detected above the reporting limit.

Blank ID	Target Analyte	Concentration(ug/L)	Qualifier	Associated Sample
ICB01	Cu	1.87	U at RL	1, 4-7, 1DUP
ICB01	Cu	1.87	JH	8

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
No field duplicate was acquired.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except a target analyte was outside QC limits in the calibrations and should be qualified in the associated samples, blanks and spikes.

Calibration ID	Target Analyte	%Rec	Qualifier	Associated Sample
LLICV01	Cu	114	JH	PB123068BS, 1-8, 1DUP
LLCCV01	Cu	116	JH	PB123068BS, 1-8, 1DUP

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 Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, 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 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:
Trip Blank was not provided with this set of samples.

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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 2:03 pm, Oct 04, 2019

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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	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
VN058107.D	1		09/16/19 11:00	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		61 - 141	112%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		69 - 133	104%	SPK: 50
2037-26-5	Toluene-d8	50.8		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		58 - 135	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	296000	7.65			
540-36-3	1,4-Difluorobenzene	482000	8.57			
3114-55-4	Chlorobenzene-d5	432000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	232000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	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
VN058108.D	1		09/16/19 11:22	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	0.81	J	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	0.86	J	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	0.59	J	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		61 - 141	113%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		58 - 135	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	297000	7.65			
540-36-3	1,4-Difluorobenzene	498000	8.57			
3114-55-4	Chlorobenzene-d5	463000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	262000	13.35			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	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
VN058138.D	1		09/17/19 10:59	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.4		61 - 141	117%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		69 - 133	109%	SPK: 50
2037-26-5	Toluene-d8	53.5		65 - 126	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		58 - 135	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.65			
540-36-3	1,4-Difluorobenzene	476000	8.57			
3114-55-4	Chlorobenzene-d5	430000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	236000	13.35			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	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
VN058139.D	1		09/17/19 11:21	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		61 - 141	99%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		69 - 133	93%	SPK: 50
2037-26-5	Toluene-d8	44.7		65 - 126	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.6		58 - 135	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	325000	7.65			
540-36-3	1,4-Difluorobenzene	526000	8.57			
3114-55-4	Chlorobenzene-d5	471000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	259000	13.35			

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LOD = Limit of Detection
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	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
VN058142.D	1		09/17/19 12:27	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	0.56	J	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.3		61 - 141	95%	SPK: 50
1868-53-7	Dibromofluoromethane	44.9		69 - 133	90%	SPK: 50
2037-26-5	Toluene-d8	45.0		65 - 126	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.1		58 - 135	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	365000	7.65			
540-36-3	1,4-Difluorobenzene	588000	8.57			
3114-55-4	Chlorobenzene-d5	546000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	315000	13.35			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	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
VN058141.D	1		09/17/19 12:05	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	0.39	J	0.12	1.00	ug/L
108-90-7	Chlorobenzene	2.90		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	0.39	J	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	0.71	J	0.20	2.00	ug/L
95-47-6	o-Xylene	1.10		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	0.42	J	0.13	1.00	ug/L
103-65-1	n-propylbenzene	0.83	J	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.70		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	0.29	J	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	5.20		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	0.72	J	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.10		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.0		61 - 141	94%	SPK: 50
1868-53-7	Dibromofluoromethane	44.1		69 - 133	88%	SPK: 50
2037-26-5	Toluene-d8	43.1		65 - 126	86%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.4		58 - 135	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	343000	7.65			
540-36-3	1,4-Difluorobenzene	563000	8.57			
3114-55-4	Chlorobenzene-d5	508000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	296000	13.35			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	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
VN058105.D	1		09/16/19 10:17	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.5		61 - 141	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		69 - 133	106%	SPK: 50
2037-26-5	Toluene-d8	51.7		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.1		58 - 135	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	303000	7.65			
540-36-3	1,4-Difluorobenzene	497000	8.57			
3114-55-4	Chlorobenzene-d5	448000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	231000	13.35			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0916WBL01	SDG No.:	K4871
Lab Sample ID:	VN0916WBL01	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
VN058104.D	1		09/16/19 09:55	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		61 - 141	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	50.4		65 - 126	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		58 - 135	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	330000	7.65			
540-36-3	1,4-Difluorobenzene	528000	8.57			
3114-55-4	Chlorobenzene-d5	475000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.35			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0917WBL01	SDG No.:	K4871
Lab Sample ID:	VN0917WBL01	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
VN058135.D	1		09/17/19 09:53	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		61 - 141	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2		69 - 133	106%	SPK: 50
2037-26-5	Toluene-d8	51.6		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		58 - 135	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	310000	7.65			
540-36-3	1,4-Difluorobenzene	500000	8.57			
3114-55-4	Chlorobenzene-d5	448000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	242000	13.35			

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0916WBS01	SDG No.:	K4871
Lab Sample ID:	VN0916WBS01	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
VN058109.D	1		09/16/19 11:44	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	22.3		0.070	1.00	ug/L
71-43-2	Benzene	21.1		0.10	1.00	ug/L
108-88-3	Toluene	21.3		0.12	1.00	ug/L
108-90-7	Chlorobenzene	21.4		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	22.1		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	43.9		0.20	2.00	ug/L
95-47-6	o-Xylene	22.4		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	21.8		0.13	1.00	ug/L
103-65-1	n-propylbenzene	22.1		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	22.0		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	21.1		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	21.6		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	22.0		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	22.3		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	21.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		61 - 141	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	51.4		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		58 - 135	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	316000	7.65			
540-36-3	1,4-Difluorobenzene	508000	8.57			
3114-55-4	Chlorobenzene-d5	477000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	VN0917WBS01	SDG No.:	K4871
Lab Sample ID:	VN0917WBS01	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
VN058140.D	1		09/17/19 11:43	VN091719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	22.1		0.070	1.00	ug/L
71-43-2	Benzene	20.7		0.10	1.00	ug/L
108-88-3	Toluene	20.7		0.12	1.00	ug/L
108-90-7	Chlorobenzene	21.5		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	41.8		0.20	2.00	ug/L
95-47-6	o-Xylene	21.5		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	21.5		0.13	1.00	ug/L
103-65-1	n-propylbenzene	21.7		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	21.7		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	21.0		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	21.5		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	21.6		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	21.7		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	21.1		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		61 - 141	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	52.4		65 - 126	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		58 - 135	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	313000	7.65			
540-36-3	1,4-Difluorobenzene	506000	8.57			
3114-55-4	Chlorobenzene-d5	478000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	286000	13.35			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	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
VN058130.D	1		09/16/19 19:25	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	56.7		0.070	1.00	ug/L
71-43-2	Benzene	52.8		0.10	1.00	ug/L
108-88-3	Toluene	52.7		0.12	1.00	ug/L
108-90-7	Chlorobenzene	53.2		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	54.4		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.20	2.00	ug/L
95-47-6	o-Xylene	55.1		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	53.1		0.13	1.00	ug/L
103-65-1	n-propylbenzene	54.3		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	54.4		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	53.2		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	54.5		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	54.5		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	54.9		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	53.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		61 - 141	106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		69 - 133	105%	SPK: 50
2037-26-5	Toluene-d8	52.2		65 - 126	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		58 - 135	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	319000	7.65			
540-36-3	1,4-Difluorobenzene	520000	8.57			
3114-55-4	Chlorobenzene-d5	503000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	311000	13.35			

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
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	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
VN058131.D	1		09/16/19 19:47	VN091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	57.5		0.070	1.00	ug/L
71-43-2	Benzene	53.5		0.10	1.00	ug/L
108-88-3	Toluene	53.7		0.12	1.00	ug/L
108-90-7	Chlorobenzene	54.2		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	55.6		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.20	2.00	ug/L
95-47-6	o-Xylene	55.7		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	55.3		0.13	1.00	ug/L
103-65-1	n-propylbenzene	56.6		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	56.4		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	55.1		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	55.7		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	55.9		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	56.7		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	55.2		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.2		61 - 141	110%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		69 - 133	108%	SPK: 50
2037-26-5	Toluene-d8	53.2		65 - 126	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		58 - 135	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	330000	7.65			
540-36-3	1,4-Difluorobenzene	533000	8.57			
3114-55-4	Chlorobenzene-d5	506000	11.41			
3855-82-1	1,4-Dichlorobenzene-d4	308000	13.35			

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, 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 ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_F using GC Column RTX-5 which is 20 meters, 0.18 mm ID, 0.36 um dfThe 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 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 File ID BG042868.D met the requirements except for Pyrene and Terphenyl-d14 .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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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.

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

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 2:05 pm, Oct 04, 2019

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	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
BG042882.D	1	09/14/19 08:05	09/18/19 00:29	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	86.9		36 - 131	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.3		39 - 131	90%	SPK: 100
1718-51-0	Terphenyl-d14	88.1		23 - 130	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62200	8.11			
1146-65-2	Naphthalene-d8	262000	10.91			
15067-26-2	Acenaphthene-d10	175000	14.72			
1517-22-2	Phenanthrene-d10	390000	17.46			
1719-03-5	Chrysene-d12	364000	21.75			
1520-96-3	Perylene-d12	390000	25.01			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	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
BG042882.D	1	09/14/19 08:05	09/18/19 00:29	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	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
BP000265.D	1	09/14/19 08:05	09/17/19 12:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	3.30	J	2.80	10.0	ug/L
86-73-7	Fluorene	4.90	J	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	95.5		36 - 131	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		39 - 131	102%	SPK: 100
1718-51-0	Terphenyl-d14	67.7		23 - 130	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	308000	6.79			
1146-65-2	Naphthalene-d8	1030000	8.07			
15067-26-2	Acenaphthene-d10	472000	9.83			
1517-22-2	Phenanthrene-d10	822000	11.34			
1719-03-5	Chrysene-d12	898000	14.01			
1520-96-3	Perylene-d12	933000	15.49			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	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
BP000265.D	1	09/14/19 08:05	09/17/19 12:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	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
BG042864.D	1	09/14/19 08:05	09/17/19 00:56	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	100		36 - 131	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.2		39 - 131	92%	SPK: 100
1718-51-0	Terphenyl-d14	87.7		23 - 130	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	119000	8.12			
1146-65-2	Naphthalene-d8	463000	10.93			
15067-26-2	Acenaphthene-d10	298000	14.74			
1517-22-2	Phenanthrene-d10	614000	17.48			
1719-03-5	Chrysene-d12	579000	21.76			
1520-96-3	Perylene-d12	660000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	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
BG042864.D	1	09/14/19 08:05	09/17/19 00:56	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	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
BG042881.D	1	09/14/19 08:05	09/17/19 23:51	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	100		36 - 131	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.0		39 - 131	94%	SPK: 100
1718-51-0	Terphenyl-d14	99.0		23 - 130	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60900	8.11			
1146-65-2	Naphthalene-d8	239000	10.91			
15067-26-2	Acenaphthene-d10	171000	14.72			
1517-22-2	Phenanthrene-d10	387000	17.47			
1719-03-5	Chrysene-d12	371000	21.74			
1520-96-3	Perylene-d12	396000	25.01			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	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
BG042881.D	1	09/14/19 08:05	09/17/19 23:51	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	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
BF117128.D	1	09/14/19 08:05	09/18/19 00:50	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	85.8		36 - 131	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		39 - 131	88%	SPK: 100
1718-51-0	Terphenyl-d14	87.5		23 - 130	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59300	6.82			
1146-65-2	Naphthalene-d8	240000	8.1			
15067-26-2	Acenaphthene-d10	124000	9.85			
1517-22-2	Phenanthrene-d10	203000	11.33			
1719-03-5	Chrysene-d12	148000	13.96			
1520-96-3	Perylene-d12	131000	15.41			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	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
BF117128.D	1	09/14/19 08:05	09/18/19 00:50	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	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
BP000251.D	1	09/14/19 08:05	09/16/19 21:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	5.00	J	2.80	10.0	ug/L
86-73-7	Fluorene	4.50	J	2.50	10.0	ug/L
85-01-8	Phenanthrene	7.20	J	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.8		36 - 131	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.5		39 - 131	81%	SPK: 100
1718-51-0	Terphenyl-d14	68.3		23 - 130	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	339000	6.79			
1146-65-2	Naphthalene-d8	1160000	8.07			
15067-26-2	Acenaphthene-d10	589000	9.83			
1517-22-2	Phenanthrene-d10	988000	11.33			
1719-03-5	Chrysene-d12	916000	13.99			
1520-96-3	Perylene-d12	1030000	15.47			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	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
BP000251.D	1	09/14/19 08:05	09/16/19 21:12	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	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
BP000263.D	1	09/14/19 08:05	09/17/19 11:23	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	92.3		36 - 131	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	104		39 - 131	104%	SPK: 100
1718-51-0	Terphenyl-d14	85.3		23 - 130	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	320000	6.79			
1146-65-2	Naphthalene-d8	1120000	8.07			
15067-26-2	Acenaphthene-d10	588000	9.83			
1517-22-2	Phenanthrene-d10	1040000	11.32			
1719-03-5	Chrysene-d12	930000	13.99			
1520-96-3	Perylene-d12	865000	15.47			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	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
BP000263.D	1	09/14/19 08:05	09/17/19 11:23	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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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A = Aldol-Condensation Reaction Products

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: DAYE02

Lab Code: CHEM Case No.: K4871 SAS No.: K4871 SDG No.: K4871

Instrument ID: BNA_G Calibration Date/Time: 09/17/2019 15:35

Lab File ID: BG042868.D Init. Calib. Date(s): 09/12/2019 09/12/2019

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:15 13:05

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.150	1.098		-4.5	
Phenol-d6	1.651	1.702		3.1	
Nitrobenzene-d5	0.384	0.424		10.4	
Naphthalene	0.987	1.054		6.8	
2-Methylnaphthalene	0.740	0.822		11.1	
2-Fluorobiphenyl	1.263	1.393		10.3	
Acenaphthylene	1.770	1.913		8.1	
Acenaphthene	1.156	1.169		1.1	20.0
Fluorene	1.424	1.572		10.4	
2,4,6-Tribromophenol	0.266	0.315		18.4	
Phenanthrene	0.956	1.053		10.1	
Anthracene	0.956	1.042		9.0	
Fluoranthene	1.240	1.217		-1.9	20.0
Pyrene	1.252	1.659		32.5	
Terphenyl-d14	0.902	1.254		39.0	
Benzo(a)anthracene	1.272	1.377		8.3	
Chrysene	1.205	1.330		10.4	
Benzo(b)fluoranthene	1.174	1.229		4.7	
Benzo(k)fluoranthene	1.109	1.195		7.8	
Benzo(a)pyrene	1.100	1.167		6.1	20.0
Indeno(1,2,3-cd)pyrene	1.492	1.478		-0.9	
Dibenzo(a,h)anthracene	1.082	1.154		6.7	
Benzo(g,h,i)perylene	1.055	1.112		5.4	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BL	SDG No.:	K4871
Lab Sample ID:	PB123104BL	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
BG042842.D	1	09/14/19 08:05	09/16/19 09:35	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	77.5		36 - 131	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		39 - 131	75%	SPK: 100
1718-51-0	Terphenyl-d14	75.0		23 - 130	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82200	8.12			
1146-65-2	Naphthalene-d8	319000	10.93			
15067-26-2	Acenaphthene-d10	241000	14.74			
1517-22-2	Phenanthrene-d10	611000	17.48			
1719-03-5	Chrysene-d12	659000	21.75			
1520-96-3	Perylene-d12	687000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BL	SDG No.:	K4871
Lab Sample ID:	PB123104BL	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
BG042842.D	1	09/14/19 08:05	09/16/19 09:35	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BS	SDG No.:	K4871
Lab Sample ID:	PB123104BS	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
BG042845.D	1	09/14/19 08:05	09/16/19 12:08	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	43.3		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	43.9		2.50	10.0	ug/L
208-96-8	Acenaphthylene	44.0		2.70	10.0	ug/L
83-32-9	Acenaphthene	48.7		2.80	10.0	ug/L
86-73-7	Fluorene	45.3		2.50	10.0	ug/L
85-01-8	Phenanthrene	42.9		2.50	10.0	ug/L
120-12-7	Anthracene	43.5		2.50	10.0	ug/L
206-44-0	Fluoranthene	44.0		2.90	10.0	ug/L
129-00-0	Pyrene	43.2		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.5		2.30	10.0	ug/L
218-01-9	Chrysene	42.1		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.9		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	46.3		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	47.6		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41.4		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.9		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	48.1		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.8		36 - 131	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.6		39 - 131	71%	SPK: 100
1718-51-0	Terphenyl-d14	72.7		23 - 130	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71800	8.12			
1146-65-2	Naphthalene-d8	308000	10.93			
15067-26-2	Acenaphthene-d10	228000	14.74			
1517-22-2	Phenanthrene-d10	596000	17.48			
1719-03-5	Chrysene-d12	612000	21.76			
1520-96-3	Perylene-d12	620000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123104BS	SDG No.:	K4871
Lab Sample ID:	PB123104BS	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
BG042845.D	1	09/14/19 08:05	09/16/19 12:08	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	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
BG042883.D	1	09/14/19 08:05	09/18/19 01:07	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	43.5		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	45.8		2.50	10.0	ug/L
208-96-8	Acenaphthylene	46.0		2.70	10.0	ug/L
83-32-9	Acenaphthene	43.8		2.80	10.0	ug/L
86-73-7	Fluorene	47.2		2.50	10.0	ug/L
85-01-8	Phenanthrene	48.7		2.50	10.0	ug/L
120-12-7	Anthracene	49.4		2.50	10.0	ug/L
206-44-0	Fluoranthene	45.1		2.90	10.0	ug/L
129-00-0	Pyrene	49.1		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.5		2.30	10.0	ug/L
218-01-9	Chrysene	46.7		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.6		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	48.5		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	47.6		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44.2		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.6		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	49.6		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	97.3		36 - 131	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.7		39 - 131	96%	SPK: 100
1718-51-0	Terphenyl-d14	101		23 - 130	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69000	8.11			
1146-65-2	Naphthalene-d8	279000	10.91			
15067-26-2	Acenaphthene-d10	195000	14.72			
1517-22-2	Phenanthrene-d10	424000	17.47			
1719-03-5	Chrysene-d12	387000	21.75			
1520-96-3	Perylene-d12	405000	25.03			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	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
BG042883.D	1	09/14/19 08:05	09/18/19 01:07	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	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
BG042884.D	1	09/14/19 08:05	09/18/19 01:45	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	42.9		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	45.0		2.50	10.0	ug/L
208-96-8	Acenaphthylene	46.5		2.70	10.0	ug/L
83-32-9	Acenaphthene	43.3		2.80	10.0	ug/L
86-73-7	Fluorene	47.3		2.50	10.0	ug/L
85-01-8	Phenanthrene	48.9		2.50	10.0	ug/L
120-12-7	Anthracene	49.9		2.50	10.0	ug/L
206-44-0	Fluoranthene	45.3		2.90	10.0	ug/L
129-00-0	Pyrene	49.9		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.3		2.30	10.0	ug/L
218-01-9	Chrysene	47.3		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.0		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	47.5		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	47.6		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.1		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.1		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	49.3		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	96.6		36 - 131	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.0		39 - 131	96%	SPK: 100
1718-51-0	Terphenyl-d14	98.1		23 - 130	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	66600	8.11			
1146-65-2	Naphthalene-d8	270000	10.92			
15067-26-2	Acenaphthene-d10	187000	14.72			
1517-22-2	Phenanthrene-d10	400000	17.47			
1719-03-5	Chrysene-d12	362000	21.76			
1520-96-3	Perylene-d12	386000	25.02			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	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
BG042884.D	1	09/14/19 08:05	09/18/19 01:45	PB123104

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: PCB

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

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

C. Analytical Techniques:
The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs 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.
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 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 File ID PO060793.D met the requirements except for Tetrachloro-m-xylene is failing in 1st column.

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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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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 2:06 pm, Oct 04, 2019

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060941.D	1	09/13/19 09:10	09/16/19 17:15	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.29	J	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.5		35 - 137	118%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.4		40 - 135	62%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060944.D	1	09/13/19 09:10	09/16/19 18:03	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		35 - 137	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		40 - 135	87%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060946.D	1	09/13/19 09:10	09/16/19 18:36	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.3		35 - 137	122%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.0		40 - 135	70%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060948.D	1	09/13/19 09:10	09/16/19 19:08	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.6		35 - 137	73%	SPK: 20
2051-24-3	Decachlorobiphenyl	9.38		40 - 135	47%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060949.D	1	09/13/19 09:10	09/16/19 19:24	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.7		35 - 137	118%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.3		40 - 135	66%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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 Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123063BL	SDG No.:	K4871
Lab Sample ID:	PB123063BL	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060780.D	1	09/13/19 09:10	09/13/19 19:28	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.9		35 - 137	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.7		40 - 135	98%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/13/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/13/19
Client Sample ID:	PIBLK-PO060751.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060751.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
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060751.D	1		09/13/19	PO091319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.7		43 - 150	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.9		24 - 154	110%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/13/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/13/19
Client Sample ID:	PIBLK-PO060770.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060770.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
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060770.D	1		09/13/19	PO091319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		43 - 150	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.0		24 - 154	115%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/13/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/13/19
Client Sample ID:	PIBLK-PO060792.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060792.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
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060792.D	1		09/13/19	PO091319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.6		43 - 150	128%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.4		24 - 154	122%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/16/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/16/19
Client Sample ID:	PIBLK-PO060934.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060934.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
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060934.D	1		09/16/19	PO091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		43 - 150	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.9		24 - 154	75%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/16/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/16/19
Client Sample ID:	PIBLK-PO060957.D	SDG No.:	K4871
Lab Sample ID:	I.BLK-PO060957.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
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060957.D	1		09/16/19	PO091619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.14	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		43 - 150	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		24 - 154	84%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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 Yard OU1_OUII Monitoring Wells	Date Received:	
Client Sample ID:	PB123063BS	SDG No.:	K4871
Lab Sample ID:	PB123063BS	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060781.D	1	09/13/19 09:10	09/13/19 19:44	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	2.20		0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	2.10		0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		35 - 137	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		40 - 135	103%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MS	SDG No.:	K4871
Lab Sample ID:	K4871-02MS	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060942.D	1	09/13/19 09:10	09/16/19 17:31	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	2.60		0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	1.30		0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	2.30		0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.7		35 - 137	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.1		40 - 135	60%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11MSD	SDG No.:	K4871
Lab Sample ID:	K4871-03MSD	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO060943.D	1	09/13/19 09:10	09/16/19 17:47	PB123063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	2.60		0.093	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.18	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.18	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	1.30		0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.19	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.14	0.50	ug/L
11096-82-5	Aroclor-1260	2.30		0.14	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.9		35 - 137	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.8		40 - 135	59%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon Yard OU1_OUII Monitoring Wells
Project # N/A
Chemtech Project # K4871
Test Name: Metals Group3

A. Number of Samples and Date of Receipt:
9 Water samples were received on 09/12/2019.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, 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 6010D 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:

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 2:07 pm, Oct 04, 2019

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-4-11	SDG No.:	K4871
Lab Sample ID:	K4871-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010
7440-50-8	Copper	9.00	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010
7439-92-1	Lead	11.6		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:08	SW6010

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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	DAY-1	SDG No.:	K4871
Lab Sample ID:	K4871-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010
7440-50-8	Copper	7.79	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010
7439-92-1	Lead	3.80	J	1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:42	SW6010

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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-4	SDG No.:	K4871
Lab Sample ID:	K4871-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010
7440-50-8	Copper	5.01	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010
7439-92-1	Lead	14.4		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:47	SW6010

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:	09/10/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-1-2	SDG No.:	K4871
Lab Sample ID:	K4871-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010
7440-50-8	Copper	9.93	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010
7439-92-1	Lead	22.2		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:51	SW6010

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:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-2-1	SDG No.:	K4871
Lab Sample ID:	K4871-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010
7440-50-8	Copper	3.74	J	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010
7439-92-1	Lead	8.83		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 19:56	SW6010

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

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:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	VE-3-1	SDG No.:	K4871
Lab Sample ID:	K4871-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	3.31	J	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010
7440-47-3	Chromium	2.31	J	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010
7440-50-8	Copper	21.7		1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010
7439-92-1	Lead	9.18		1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 20:00	SW6010

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

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:	09/11/19
Project:	MNR Harmon Yard OU1_OUII Monitoring Wells	Date Received:	09/12/19
Client Sample ID:	FB-91119	SDG No.:	K4871
Lab Sample ID:	K4871-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	0.68	10.0	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010
7440-47-3	Chromium	5.00	U	1	1.33	5.00	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010
7440-50-8	Copper	10.0	U	1	0.49	10.0	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010
7439-92-1	Lead	6.00	U	1	1.43	6.00	ug/L	09/13/19 10:22	09/13/19 20:05	SW6010

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

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** K4871

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** K4871 **SAS No.:** K4871

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
LLICV01	Arsenic	18.3	20.0	92	80 - 120	P	09/13/2019	11:40	LB105130
	Chromium	10.9	10.0	109	80 - 120	P	09/13/2019	11:40	LB105130
	Copper	22.8	20.0	114	80 - 120	P	09/13/2019	11:40	LB105130
	Lead	12.1	12.0	101	80 - 120	P	09/13/2019	11:40	LB105130

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** K4871

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** K4871 **SAS No.:** K4871

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
LLCCV01	Arsenic	19.4	20.0	97	80 - 120	P	09/13/2019	12:12	LB105130
	Chromium	11.0	10.0	110	80 - 120	P	09/13/2019	12:12	LB105130
	Copper	23.3	20.0	116	80 - 120	P	09/13/2019	12:12	LB105130
	Lead	12.8	12.0	106	80 - 120	P	09/13/2019	12:12	LB105130

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Day Engineering, P.C. **SDG No.:** K4871

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** K4871 **SAS No.:** K4871

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	09/13/2019	11:45	LB105130
	Chromium	10.0	+/-10.0	U	10.0	P	09/13/2019	11:45	LB105130
	Copper	1.87	+/-20.0	J	20.0	P	09/13/2019	11:45	LB105130
	Lead	12.0	+/-12.0	U	12.0	P	09/13/2019	11:45	LB105130

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Chemtech SDG#L2904
May 5, 2023
Sampling date: 6/3, 4/2020

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Chemtech SDG#L2904 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(1/2020) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D, 8270D SIM), PCB (8082A), Inorganics (6010D) and Perfluorinated Hydrocarbons (537 modified).

DUSR ID	Sample ID	Laboratory ID	Laboratory #2 ID
1	VE-4-11	L2904-01	K2005011-001
2	VE-4-11MS	L2904-02	
3	VE-4-11MSD	L2904-03	
4	DAY-1	L2904-04	
5	VE-1-4	L2904-05	K2005011-002
6	VE-1-2	L2904-06	
7	VE-3-1	L2904-07	
8	VE-2-1	L2904-08	K2005011-003
9	DUP	L2904-09	K2005011-004
10	EB6420	L2904-10	K2005011-005
11	FB6420	L2904-11	K2005011-006

The analysis of the Perfluorinated Hydrocarbons was subcontracted to ALS Environmental (Laboratory #2)

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration

-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#4 was outside QC limit. This sample was analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except some of the areas of the internal standards were rounded when applied to Form 8B. The unrounded values were used, so no further action is required. Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met except the area of 1,4-Dichlorobenzene-d_4 in DUSR ID#4 and Acenaphthene-d_{10} and Perylene-d_{12} in DUSR ID#5 were outside QC limits. There were no associated target analytes monitored in these samples, so no further action is required.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of a surrogate was outside QC limits off the primary column and should be qualified as estimated. Associated target analytes in this sample should be qualified.

Surrogate	Column	%Rec	Qualifier	Associated Sample
DCBP	1	29	UJ	7

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks, Serial Dilution and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except a target analyte was detected in a blank. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as estimated high in associated samples in which it was detected above the reporting limit.

Blank ID	Target Analyte	Concentration(ug/L)	Qualifier	Associated Sample
CCB02	Pb	2.56	JH	1, 1DUP

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except a target analyte was outside QC limits in the calibrations and should be qualified in the associated samples, blanks and spikes.

Calibration ID	Target Analyte	%Rec	Qualifier	Associated Sample
LLICV01	As	112	JH	PB129372BS, 2, 3
LLICV01	Cr	88	UJ/J	PB129372, 1-10
LLCCV01	Cr	81	UJ/J	PB129372

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Spike Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the summary form for the continuing calibration, KQ2008411-04, was not included in the package. The raw data was included, and the data was within QC limits, so no further action is required.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of several surrogates was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified as estimated.

Surrogate	Qualifier	Associated Sample
13C2PFHxA	UJ/J	1, 8, 9, 1MS/MSD
d5-NEtFOSAA	UJ/J	1, 5, 1MS/MSD
13C2-6:2FTS	UJ/J	1, 5, 8, 9, 1MS/MSD
13C2-8:2FTS	UJ/J	1, 5, 8, 9, 1MS/MSD
13C4-PFHpA	UJ/J	1, 8, 9, 1MS/MSD
13C4-PFOA	UJ/J	1, 8, 9, 1MS/MSD

BLANKS
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met except a target analyte was outside QC limits in the matrix spike and matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec 1MS	%Rec 1MSD	%RPD	Qualifier	Associated Sample
PFPeA	144	-	42	UJ	1

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on all of the target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the %Rec of a target analyte was outside QC limits in a continuing

calibration and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	%Rec	Qualifier	Associated Sample
KQ2008290-01	NMeFOSAA	131	UJ/J	KQ2008184, 1, 2, 1MS/MSD

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Chemtech SDG#M3561
May 5, 2023
Sampling date: 8/24-26/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Chemtech SDG#M3561 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using the USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D, 8270D SIM), PCB (8082A) and Inorganics (6010C).

DUSR ID	Sample ID	Laboratory ID
1	OUII-D	M3561-01
2	OUII-A	M3561-02
3	OUII-F	M3561-03
4	OUII-C	M3561-04
5	OUII-E	M3561-05
6	VE4-11	M3561-06
7	FA4-16	M3561-07
8	FA4-11	M3561-08
9	PGW-2	M3561-09
10	VE1-4	M3561-10
11	DUPLICATE-082521	M3561-11
12	VE1-2	M3561-12
13	VE2-1	M3561-13
14	VE3-1	M3561-14
15	VE4-7	M3561-15
16	VE4-9	M3561-16
17	DAY-1	M3561-17
18	FA4-9	M3561-18
19	EB-082621	M3561-19
20	FB-082621	M3561-20
21	TRIP-BLANK-082621	M3561-21
23	VE4-11MS	M3561-23
24	VE4-11MSD	M3561-24

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of 2-Fluorophenol was outside QC limits high in PB138774BS. There were no target analytes associated with this surrogate, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Compound Quantitation and Continuing Calibration.

Sample: DUSR ID#1 was diluted due to sample matrix.
Sample: DUSR ID#2 was diluted due to high target analyte concentrations.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met except the %RPD was outside QC limits between the columns for a target analyte in several samples and should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1, 3, 8, 15, 18

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except continuing calibration was not performed on Aroclor 1254. This target analyte should be qualified as estimated in all samples, blanks and spikes in which it was detected.

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except a target analyte was outside QC limits in the calibrations and should be qualified in the associated samples, blanks and spikes.

Calibration ID	Target Analyte	%Rec	Qualifier	Associated Sample
LLICV01	Cu	114	JH	PB138775BS, 4-6, 10-18, 23, 24, 6DUP
LLCCV01	Cu	113	JH	PB138775BS, 4-6, 10-18, 23, 24, 6DUP

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe 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 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.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:30 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023991.D	1		08/27/21 14:45	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		78 - 117	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	48.9		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		83 - 123	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	135000	5.562			
540-36-3	1,4-Difluorobenzene	230000	6.769			
3114-55-4	Chlorobenzene-d5	214000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	85700	12.024			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024010.D	1		08/30/21 13:31	VX083021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.1		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		83 - 123	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	183000	5.562			
540-36-3	1,4-Difluorobenzene	309000	6.769			
3114-55-4	Chlorobenzene-d5	289000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	122000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024000.D	1		08/27/21 18:18	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	48.0		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	5.562			
540-36-3	1,4-Difluorobenzene	282000	6.769			
3114-55-4	Chlorobenzene-d5	266000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	120000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023993.D	1		08/27/21 15:33	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		78 - 117	108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.9		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		83 - 123	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	136000	5.562			
540-36-3	1,4-Difluorobenzene	235000	6.769			
3114-55-4	Chlorobenzene-d5	225000	10.061			
3855-82-1	1,4-Dichlorobenzene-d4	96700	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023994.D	1		08/27/21 15:56	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	46.5		92 - 112	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		83 - 123	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	5.562			
540-36-3	1,4-Difluorobenzene	255000	6.769			
3114-55-4	Chlorobenzene-d5	239000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	103000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023995.D	1		08/27/21 16:20	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		83 - 123	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	139000	5.562			
540-36-3	1,4-Difluorobenzene	238000	6.769			
3114-55-4	Chlorobenzene-d5	223000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	99800	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023996.D	1		08/27/21 16:43	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.9		78 - 117	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		83 - 123	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	5.562			
540-36-3	1,4-Difluorobenzene	237000	6.769			
3114-55-4	Chlorobenzene-d5	221000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	92500	12.024			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023997.D	1		08/27/21 17:07	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.25	J	0.18	1.00	ug/L
108-88-3	Toluene	0.70	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	4.20		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	0.42	J	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	0.80	J	0.32	2.00	ug/L
95-47-6	o-Xylene	1.60		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.52	J	0.23	1.00	ug/L
103-65-1	n-propylbenzene	0.97	J	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.50		0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	7.60		0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	0.86	J	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.20		0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		83 - 123	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	5.562			
540-36-3	1,4-Difluorobenzene	235000	6.769			
3114-55-4	Chlorobenzene-d5	220000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	98500	12.024			

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MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023998.D	1		08/27/21 17:31	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	0.45	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	1.50	J	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	47.8		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	5.562			
540-36-3	1,4-Difluorobenzene	268000	6.769			
3114-55-4	Chlorobenzene-d5	254000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	120000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023999.D	1		08/27/21 17:54	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.25	J	0.18	1.00	ug/L
108-88-3	Toluene	0.44	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.20		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	0.47	J	0.32	2.00	ug/L
95-47-6	o-Xylene	0.64	J	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.70		0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	2.00		0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.27	J	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.7		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	5.562			
540-36-3	1,4-Difluorobenzene	269000	6.769			
3114-55-4	Chlorobenzene-d5	255000	10.061			
3855-82-1	1,4-Dichlorobenzene-d4	120000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024016.D	1		08/30/21 15:52	VX083021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.67	J	0.18	1.00	ug/L
108-88-3	Toluene	0.42	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	0.54	J	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.41	J	0.23	1.00	ug/L
103-65-1	n-propylbenzene	0.74	J	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	0.42	J	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	0.75	J	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		78 - 117	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	5.562			
540-36-3	1,4-Difluorobenzene	261000	6.769			
3114-55-4	Chlorobenzene-d5	244000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	112000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX024017.D	1		08/30/21 16:16	VX083021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	0.53	J	0.18	1.00	ug/L
108-88-3	Toluene	0.46	J	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	0.43	J	0.32	2.00	ug/L
95-47-6	o-Xylene	1.90		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.53	J	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.40		0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	0.29	J	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	5.562			
540-36-3	1,4-Difluorobenzene	276000	6.769			
3114-55-4	Chlorobenzene-d5	256000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	118000	12.024			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023989.D	1		08/27/21 13:58	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		78 - 117	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	47.9		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		83 - 123	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	135000	5.562			
540-36-3	1,4-Difluorobenzene	235000	6.769			
3114-55-4	Chlorobenzene-d5	221000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	94400	12.024			

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MDL = Method Detection Limit
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-20	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023990.D	1		08/27/21 14:22	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	47.3		92 - 112	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		83 - 123	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	5.562			
540-36-3	1,4-Difluorobenzene	265000	6.769			
3114-55-4	Chlorobenzene-d5	252000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	106000	12.024			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	TRIP-BLANK-082621	SDG No.:	M3561
Lab Sample ID:	M3561-21	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:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX023988.D	1		08/27/21 13:35	VX082721

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.21	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	46.1		92 - 112	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.0		83 - 123	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	5.562			
540-36-3	1,4-Difluorobenzene	240000	6.769			
3114-55-4	Chlorobenzene-d5	222000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	84200	12.024			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, 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 DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOCMS Group1 was based on method 8270E 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 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:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
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.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:34 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	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
BF125305.D	1	08/30/21 10:10	09/01/21 14:28	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.5		49 - 133	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		52 - 132	73%	SPK: 100
1718-51-0	Terphenyl-d14	69.3		45 - 142	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	168000	6.904			
1146-65-2	Naphthalene-d8	664000	8.186			
15067-26-2	Acenaphthene-d10	367000	9.945			
1517-22-2	Phenanthrene-d10	707000	11.433			
1719-03-5	Chrysene-d12	589000	14.074			
1520-96-3	Perylene-d12	470000	15.574			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	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
BF125305.D	1	08/30/21 10:10	09/01/21 14:28	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	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
BF125287.D	1	08/30/21 10:10	08/31/21 14:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	79.8		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		52 - 132	69%	SPK: 100
1718-51-0	Terphenyl-d14	78.8		45 - 142	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	177000	6.91			
1146-65-2	Naphthalene-d8	686000	8.198			
15067-26-2	Acenaphthene-d10	386000	9.951			
1517-22-2	Phenanthrene-d10	748000	11.439			
1719-03-5	Chrysene-d12	554000	14.08			
1520-96-3	Perylene-d12	446000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	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
BF125287.D	1	08/30/21 10:10	08/31/21 14:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	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
BF125270.D	1	08/30/21 10:10	08/30/21 19:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	80.7		49 - 133	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.2		52 - 132	73%	SPK: 100
1718-51-0	Terphenyl-d14	72.1		45 - 142	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	180000	6.91			
1146-65-2	Naphthalene-d8	710000	8.198			
15067-26-2	Acenaphthene-d10	378000	9.951			
1517-22-2	Phenanthrene-d10	604000	11.439			
1719-03-5	Chrysene-d12	412000	14.086			
1520-96-3	Perylene-d12	411000	15.592			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	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
BF125270.D	1	08/30/21 10:10	08/30/21 19:21	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	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
BF125267.D	1	08/30/21 10:10	08/30/21 17:43	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	80.3		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.6		52 - 132	72%	SPK: 100
1718-51-0	Terphenyl-d14	77.6		45 - 142	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	157000	6.916			
1146-65-2	Naphthalene-d8	620000	8.198			
15067-26-2	Acenaphthene-d10	339000	9.951			
1517-22-2	Phenanthrene-d10	620000	11.439			
1719-03-5	Chrysene-d12	386000	14.08			
1520-96-3	Perylene-d12	435000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	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
BF125267.D	1	08/30/21 10:10	08/30/21 17:43	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	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
BF125268.D	1	08/30/21 10:10	08/30/21 18:15	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	82.2		49 - 133	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.7		52 - 132	75%	SPK: 100
1718-51-0	Terphenyl-d14	83.1		45 - 142	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.916			
1146-65-2	Naphthalene-d8	637000	8.198			
15067-26-2	Acenaphthene-d10	341000	9.951			
1517-22-2	Phenanthrene-d10	647000	11.439			
1719-03-5	Chrysene-d12	421000	14.08			
1520-96-3	Perylene-d12	458000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	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
BF125268.D	1	08/30/21 10:10	08/30/21 18:15	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	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
BF125266.D	1	08/30/21 10:10	08/30/21 17:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.8		49 - 133	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.6		52 - 132	71%	SPK: 100
1718-51-0	Terphenyl-d14	76.9		45 - 142	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	166000	6.91			
1146-65-2	Naphthalene-d8	661000	8.198			
15067-26-2	Acenaphthene-d10	352000	9.951			
1517-22-2	Phenanthrene-d10	631000	11.445			
1719-03-5	Chrysene-d12	415000	14.086			
1520-96-3	Perylene-d12	429000	15.586			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	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
BF125266.D	1	08/30/21 10:10	08/30/21 17:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
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N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	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
BF125269.D	1	08/30/21 10:10	08/30/21 18:48	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.5		49 - 133	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.1		52 - 132	69%	SPK: 100
1718-51-0	Terphenyl-d14	80.6		45 - 142	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	174000	6.91			
1146-65-2	Naphthalene-d8	683000	8.198			
15067-26-2	Acenaphthene-d10	375000	9.951			
1517-22-2	Phenanthrene-d10	702000	11.439			
1719-03-5	Chrysene-d12	423000	14.08			
1520-96-3	Perylene-d12	451000	15.58			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	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
BF125269.D	1	08/30/21 10:10	08/30/21 18:48	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	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
BF125277.D	1	08/30/21 10:10	08/30/21 23:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	32.4		2.20	5.00	ug/L
208-96-8	Acenaphthylene	4.40	J	2.10	5.00	ug/L
83-32-9	Acenaphthene	18.0		2.30	5.00	ug/L
86-73-7	Fluorene	31.7		2.20	5.00	ug/L
85-01-8	Phenanthrene	59.9		2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	6.30		2.60	5.00	ug/L
129-00-0	Pyrene	9.30		1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	90.9		49 - 133	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.9		52 - 132	84%	SPK: 100
1718-51-0	Terphenyl-d14	61.1		45 - 142	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.916			
1146-65-2	Naphthalene-d8	573000	8.204			
15067-26-2	Acenaphthene-d10	242000	9.98			
1517-22-2	Phenanthrene-d10	379000	11.48			
1719-03-5	Chrysene-d12	376000	14.104			
1520-96-3	Perylene-d12	303000	15.609			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	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
BF125277.D	1	08/30/21 10:10	08/30/21 23:10	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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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
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	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
BF125274.D	1	08/30/21 10:10	08/30/21 21:32	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	2.90	J	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.8		49 - 133	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.4		52 - 132	65%	SPK: 100
1718-51-0	Terphenyl-d14	61.9		45 - 142	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	161000	6.916			
1146-65-2	Naphthalene-d8	625000	8.198			
15067-26-2	Acenaphthene-d10	329000	9.957			
1517-22-2	Phenanthrene-d10	563000	11.451			
1719-03-5	Chrysene-d12	406000	14.086			
1520-96-3	Perylene-d12	418000	15.586			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	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
BF125274.D	1	08/30/21 10:10	08/30/21 21:32	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	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
BF125275.D	1	08/30/21 10:10	08/30/21 22:04	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	2.20	J	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	77.9		49 - 133	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.7		52 - 132	75%	SPK: 100
1718-51-0	Terphenyl-d14	54.7		45 - 142	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	177000	6.916			
1146-65-2	Naphthalene-d8	631000	8.198			
15067-26-2	Acenaphthene-d10	305000	9.963			
1517-22-2	Phenanthrene-d10	442000	11.451			
1719-03-5	Chrysene-d12	421000	14.086			
1520-96-3	Perylene-d12	444000	15.586			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	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
BF125275.D	1	08/30/21 10:10	08/30/21 22:04	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	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
BF125276.D	1	08/30/21 10:10	08/30/21 22:37	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	3.50	J	2.30	5.00	ug/L
86-73-7	Fluorene	6.90		2.20	5.00	ug/L
85-01-8	Phenanthrene	4.80	J	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	78.7		49 - 133	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.8		52 - 132	80%	SPK: 100
1718-51-0	Terphenyl-d14	52.7		45 - 142	53%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	169000	6.916			
1146-65-2	Naphthalene-d8	635000	8.198			
15067-26-2	Acenaphthene-d10	302000	9.957			
1517-22-2	Phenanthrene-d10	478000	11.451			
1719-03-5	Chrysene-d12	435000	14.104			
1520-96-3	Perylene-d12	388000	15.604			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	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
BF125276.D	1	08/30/21 10:10	08/30/21 22:37	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	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
BF125273.D	1	08/30/21 10:10	08/30/21 20:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	3.60	J	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.3		49 - 133	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.0		52 - 132	72%	SPK: 100
1718-51-0	Terphenyl-d14	55.0		45 - 142	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	167000	6.916			
1146-65-2	Naphthalene-d8	640000	8.198			
15067-26-2	Acenaphthene-d10	313000	9.957			
1517-22-2	Phenanthrene-d10	505000	11.451			
1719-03-5	Chrysene-d12	424000	14.092			
1520-96-3	Perylene-d12	421000	15.592			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	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
BF125273.D	1	08/30/21 10:10	08/30/21 20:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	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
BF125306.D	1	08/30/21 10:10	09/01/21 14:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.5		49 - 133	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.6		52 - 132	67%	SPK: 100
1718-51-0	Terphenyl-d14	61.6		45 - 142	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.904			
1146-65-2	Naphthalene-d8	641000	8.192			
15067-26-2	Acenaphthene-d10	355000	9.945			
1517-22-2	Phenanthrene-d10	684000	11.433			
1719-03-5	Chrysene-d12	592000	14.08			
1520-96-3	Perylene-d12	489000	15.574			

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	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
BF125306.D	1	08/30/21 10:10	09/01/21 14:59	PB138819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
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MDL = Method Detection Limit
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A = Aldol-Condensation Reaction Products

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified 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 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:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
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.

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

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:32 am, Sep 09, 2021

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Surrogate Summary

SW-846

SDG No.: M3561

Client: Day Engineering, P.C.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
M3561-23MS	VE4-11MS	Nitrobenzene-d5	0.4	0.37	92		11	175
		2-Fluorobiphenyl	0.4	0.27	68		10	175
		2,4,6-Tribromophenol	0.4	0.34	84		24	148
		Terphenyl-d14	0.4	0.38	94		54	171
M3561-24MSD	VE4-11MSD	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.30	74		30	150
		2-Fluorophenol	0.4	0.17	41		10	92
		Phenol-d6	0.4	0.11	27		10	100
		Nitrobenzene-d5	0.4	0.37	92		11	175
		2-Fluorobiphenyl	0.4	0.27	68		10	175
		2,4,6-Tribromophenol	0.4	0.34	85		24	148
		Terphenyl-d14	0.4	0.38	94		54	171
PB138774BL	PB138774BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		2-Fluorophenol	0.4	0.33	82		10	92
		Phenol-d6	0.4	0.31	76		10	100
		Nitrobenzene-d5	0.4	0.33	83		11	175
		2-Fluorobiphenyl	0.4	0.35	86		10	175
		2,4,6-Tribromophenol	0.4	0.28	69		24	148
		Terphenyl-d14	0.4	0.38	96		54	171
PB138774BS	PB138774BS	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		2-Fluorophenol	0.4	0.37	94	*	10	92
		Phenol-d6	0.4	0.38	94		10	100
		Nitrobenzene-d5	0.4	0.36	91		11	175
		2-Fluorobiphenyl	0.4	0.38	94		10	175
		2,4,6-Tribromophenol	0.4	0.39	96		24	148
		Terphenyl-d14	0.4	0.37	91		54	171

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN016229.D	1	08/27/21 11:50	09/05/21 15:49	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150	87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150	72%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		11 - 175	92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		10 - 175	66%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.30		54 - 171	74%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	14100	7.873			
1146-65-2	Naphthalene-d8	72600	10.66			
15067-26-2	Acenaphthene-d10	57200	14.497			
1517-22-2	Phenanthrene-d10	101000	17.249			
1719-03-5	Chrysene-d12	105000	21.45			
1520-96-3	Perylene-d12	77900	23.854			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN016216.D	1	08/27/21 11:50	09/05/21 06:09	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150	94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150	93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		11 - 175	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		10 - 175	68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		54 - 171	94%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	15600	7.873			
1146-65-2	Naphthalene-d8	84100	10.66			
15067-26-2	Acenaphthene-d10	67900	14.497			
1517-22-2	Phenanthrene-d10	109000	17.249			
1719-03-5	Chrysene-d12	119000	21.44			
1520-96-3	Perylene-d12	120000	23.827			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN016219.D	1	08/27/21 11:50	09/05/21 07:58	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150	86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150	87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		11 - 175	86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		10 - 175	66%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 171	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	15700	7.873			
1146-65-2	Naphthalene-d8	83900	10.66			
15067-26-2	Acenaphthene-d10	65600	14.497			
1517-22-2	Phenanthrene-d10	105000	17.249			
1719-03-5	Chrysene-d12	111000	21.44			
1520-96-3	Perylene-d12	112000	23.837			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN016220.D	1	08/27/21 11:50	09/05/21 08:34	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150	79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150	79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		11 - 175	76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		10 - 175	78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 171	92%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	15800	7.873			
1146-65-2	Naphthalene-d8	84500	10.66			
15067-26-2	Acenaphthene-d10	52900	14.497			
1517-22-2	Phenanthrene-d10	104000	17.248			
1719-03-5	Chrysene-d12	105000	21.439			
1520-96-3	Perylene-d12	110000	23.833			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN016202.D	1	08/27/21 11:50	09/04/21 20:30	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150	79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150	94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		11 - 175	80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		10 - 175	82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		54 - 171	118%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	13200	7.873			
1146-65-2	Naphthalene-d8	70400	10.66			
15067-26-2	Acenaphthene-d10	41200	14.497			
1517-22-2	Phenanthrene-d10	83200	17.236			
1719-03-5	Chrysene-d12	86700	21.429			
1520-96-3	Perylene-d12	88100	23.82			

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
M = MS/MSD acceptance 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
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-20	Matrix:	Water
Analytical Method:	SW8270SIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
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
BN016203.D	1	08/27/21 11:50	09/04/21 21:06	PB138774

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.20	U	0.10	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150	80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		11 - 175	82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		10 - 175	86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		54 - 171	109%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	13100	7.873			
1146-65-2	Naphthalene-d8	69400	10.66			
15067-26-2	Acenaphthene-d10	39500	14.497			
1517-22-2	Phenanthrene-d10	77900	17.236			
1719-03-5	Chrysene-d12	79100	21.429			
1520-96-3	Perylene-d12	78700	23.82			

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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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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: PCB

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, SVOCMS Group1 and VOCMS Group1. This data package contains results for PCB.

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, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs 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.
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 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 .

Samples OUII-D was initially diluted due to OILY matrix.

Sample OUII-A was diluted due to high concentration of Aroclor-1254.

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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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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:36 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-D	SDG No.:	M3561
Lab Sample ID:	M3561-01	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	700 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039055.D	5	08/30/21 08:49	08/30/21 21:43	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	3.60	U	0.91	3.60	ug/L
11104-28-2	Aroclor-1221	3.60	U	0.99	3.60	ug/L
11141-16-5	Aroclor-1232	3.60	U	1.20	3.60	ug/L
53469-21-9	Aroclor-1242	3.60	U	0.84	3.60	ug/L
12672-29-6	Aroclor-1248	3.60	U	0.87	3.60	ug/L
11097-69-1	Aroclor-1254	8.30	P	0.85	3.60	ug/L
37324-23-5	Aroclor-1262	3.60	U	0.84	3.60	ug/L
11100-14-4	Aroclor-1268	3.60	U	1.20	3.60	ug/L
11096-82-5	Aroclor-1260	3.60	U	0.76	3.60	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		26 - 175	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.1		10 - 146	60%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-A	SDG No.:	M3561
Lab Sample ID:	M3561-02	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039056.D	1	08/30/21 08:49	08/30/21 22:00	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	13.3	E	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.1		26 - 175	76%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.4		10 - 146	57%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-ADL	SDG No.:	M3561
Lab Sample ID:	M3561-02DL	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039063.D	2	08/30/21 08:49	08/31/21 10:11	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	1.00	UD	0.25	1.00	ug/L
11104-28-2	Aroclor-1221	1.00	UD	0.28	1.00	ug/L
11141-16-5	Aroclor-1232	1.00	UD	0.33	1.00	ug/L
53469-21-9	Aroclor-1242	1.00	UD	0.23	1.00	ug/L
12672-29-6	Aroclor-1248	1.00	UD	0.24	1.00	ug/L
11097-69-1	Aroclor-1254	14.7	D	0.24	1.00	ug/L
37324-23-5	Aroclor-1262	1.00	UD	0.24	1.00	ug/L
11100-14-4	Aroclor-1268	1.00	UD	0.33	1.00	ug/L
11096-82-5	Aroclor-1260	1.00	UD	0.21	1.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.5		26 - 175	77%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.9		10 - 146	59%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-F	SDG No.:	M3561
Lab Sample ID:	M3561-03	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039057.D	1	08/30/21 08:49	08/30/21 22:17	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	2.00	P	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.0		26 - 175	75%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.5		10 - 146	58%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039035.D	1	08/30/21 08:49	08/30/21 15:30	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.0		26 - 175	120%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.2		10 - 146	121%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039036.D	1	08/30/21 08:49	08/30/21 15:47	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.0		26 - 175	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.6		10 - 146	118%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039037.D	1	08/30/21 08:49	08/30/21 16:04	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.5		26 - 175	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		10 - 146	89%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-16	SDG No.:	M3561
Lab Sample ID:	M3561-07	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039038.D	1	08/30/21 08:49	08/30/21 16:21	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	10.0		0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.5		26 - 175	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		10 - 146	99%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-11	SDG No.:	M3561
Lab Sample ID:	M3561-08	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039039.D	1	08/30/21 08:49	08/30/21 16:38	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.89	P	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.3		26 - 175	52%	SPK: 20
2051-24-3	Decachlorobiphenyl	7.73		10 - 146	39%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	PGW-2	SDG No.:	M3561
Lab Sample ID:	M3561-09	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	310 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039040.D	1	08/30/21 08:49	08/30/21 16:55	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	1.60	U	0.41	1.60	ug/L
11104-28-2	Aroclor-1221	1.60	U	0.45	1.60	ug/L
11141-16-5	Aroclor-1232	1.60	U	0.54	1.60	ug/L
53469-21-9	Aroclor-1242	1.60	U	0.38	1.60	ug/L
12672-29-6	Aroclor-1248	1.60	U	0.39	1.60	ug/L
11097-69-1	Aroclor-1254	2.10		0.38	1.60	ug/L
37324-23-5	Aroclor-1262	1.60	U	0.38	1.60	ug/L
11100-14-4	Aroclor-1268	1.60	U	0.53	1.60	ug/L
11096-82-5	Aroclor-1260	1.60	U	0.34	1.60	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		26 - 175	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		10 - 146	104%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039041.D	1	08/30/21 08:49	08/30/21 17:12	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		26 - 175	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		10 - 146	80%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039042.D	1	08/30/21 08:49	08/30/21 17:29	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		26 - 175	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		10 - 146	89%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039043.D	1	08/30/21 08:49	08/30/21 17:46	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		26 - 175	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.3		10 - 146	66%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039044.D	1	08/30/21 08:49	08/30/21 18:03	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		26 - 175	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.1		10 - 146	95%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039045.D	1	08/30/21 08:49	08/30/21 18:20	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.5		26 - 175	78%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.6		10 - 146	58%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039046.D	1	08/30/21 08:49	08/30/21 18:37	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.35	JP	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	14.4		26 - 175	72%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		10 - 146	77%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039047.D	1	08/30/21 08:49	08/30/21 18:54	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.7		26 - 175	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.4		10 - 146	77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039048.D	1	08/30/21 08:49	08/30/21 19:11	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		26 - 175	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		10 - 146	93%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039049.D	1	08/30/21 08:49	08/30/21 19:28	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.44	JP	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.2		26 - 175	86%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.2		10 - 146	96%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP039050.D	1	08/30/21 08:49	08/30/21 19:45	PB138794

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.13	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.12	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.12	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.16	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		26 - 175	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		10 - 146	89%	SPK: 20

Comments:

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
M = MS/MSD acceptance 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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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
FA4-11

Contract: DAYE02

Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561

Lab Sample ID: M3561-08 Date(s) Analyzed: 08/30/2021 08/30/2021

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)

Data file PP039039.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.104	7.054	7.154	0.52		
	2	7.331	7.281	7.381	0.96		
	3	7.726	7.676	7.776	1.04		
COLUMN 1	4	8.012	7.962	8.062	0.91		
	5	8.441	8.391	8.491	1.00	0.89	
	1	5.971	5.921	6.021	0.68		
	2	6.131	6.081	6.181	0.18		
	3	6.547	6.497	6.597	0.33		
	4	6.788	6.738	6.838	0.35		
COLUMN 2	5	7.214	7.164	7.264	0.67	0.44	67.3

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
VE4-7

Contract: DAYE02

Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561

Lab Sample ID: M3561-15 Date(s) Analyzed: 08/30/2021 08/30/2021

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)

Data file PP039046.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.101	7.051	7.151	0.35		
	2	7.321	7.271	7.371	0.47		
	3	7.717	7.667	7.767	0.30		
COLUMN 1	4	8.012	7.962	8.062	0.31		
	5	8.44	8.39	8.49	0.29	0.35	
	1	5.969	5.919	6.019	0.39		
	2	6.131	6.081	6.181	0.22		
	3	6.546	6.496	6.596	0.15		
	4	6.787	6.737	6.837	0.30		
COLUMN 2	5	7.215	7.165	7.265	0.22	0.26	29.49

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
FA4-9

Contract: DAYE02
Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561
Lab Sample ID: M3561-18 Date(s) Analyzed: 08/30/2021 08/30/2021
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)
Data file PP039049.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.101	7.051	7.151	0.39		
	2	7.329	7.279	7.379	0.40		
	3	7.713	7.663	7.763	0.34		
COLUMN 1	4	8.011	7.961	8.061	0.69		
	5	8.441	8.391	8.491	0.36	0.44	
	1	5.969	5.919	6.019	0.39		
	2	6.129	6.079	6.179	0.20		
	3	6.546	6.496	6.596	0.27		
	4	6.786	6.736	6.836	0.43		
COLUMN 2	5	7.214	7.164	7.264	0.23	0.30	35.94

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
OUII-D

Contract: DAYE02

Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561

Lab Sample ID: M3561-01 Date(s) Analyzed: 08/30/2021 08/30/2021

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)

Data file PP039055.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.104	7.054	7.154	6.34		
	2	7.331	7.281	7.381	8.84		
	3	7.725	7.675	7.775	11.4		
COLUMN 1	4	8.01	7.96	8.06	7.57		
	5	8.44	8.39	8.49	7.54	8.30	
	1	5.972	5.922	6.022	10.8		
	2	6.129	6.079	6.179	3.30		
	3	6.547	6.497	6.597	3.13		
	4	6.788	6.738	6.838	3.87		
COLUMN 2	5	7.214	7.164	7.264	6.23	5.50	40.58

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
OUII-F

Contract: DAYE02

Lab Code: CHEM Case No.: M3561 SAS No.: M3561 SDG NO.: M3561

Lab Sample ID: M3561-03 Date(s) Analyzed: 08/30/2021 08/30/2021

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)

Data file PP039057.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1254	1	7.106	7.056	7.156	1.51		
	2	7.334	7.284	7.384	2.00		
	3	7.723	7.673	7.773	2.33		
COLUMN 1	4	8.012	7.962	8.062	1.80		
	5	8.441	8.391	8.491	2.41	2.00	
	1	5.973	5.923	6.023	2.38		
	2	6.131	6.081	6.181	0.96		
	3	6.549	6.499	6.599	0.98		
	4	6.789	6.739	6.839	1.09		
COLUMN 2	5	7.216	7.166	7.266	2.07	1.50	28.57

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CASE NARRATIVE

Day Engineering, P.C.
Project Name: MNR Harmon OU-I OU-II
Project # N/A
Chemtech Project # M3561
Test Name: Metals Group3

A. Number of Samples and Date of Receipt:
23 Water samples were received on 08/26/2021.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group3, PCB, SVOC-SIMGroup1, 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 6010D 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:

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature__ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:37 am, Sep 09, 2021

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-C	SDG No.:	M3561
Lab Sample ID:	M3561-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010
7440-47-3	Chromium	5.00	U	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010
7440-50-8	Copper	2.40	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 17:38	SW6010

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:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	OUII-E	SDG No.:	M3561
Lab Sample ID:	M3561-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010
7440-47-3	Chromium	4.55	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010
7440-50-8	Copper	7.31	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 17:42	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/24/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-11	SDG No.:	M3561
Lab Sample ID:	M3561-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010
7440-47-3	Chromium	0.92	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010
7440-50-8	Copper	8.21	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010
7439-92-1	Lead	2.39	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 17:54	SW6010

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
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-4	SDG No.:	M3561
Lab Sample ID:	M3561-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010
7440-47-3	Chromium	1.42	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010
7440-50-8	Copper	22.3		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010
7439-92-1	Lead	3.55	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:18	SW6010

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
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DUPLICATE-082521	SDG No.:	M3561
Lab Sample ID:	M3561-11	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010
7440-47-3	Chromium	1.60	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010
7440-50-8	Copper	27.1		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010
7439-92-1	Lead	4.10	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:22	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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E = Indicates the reported value is estimated because of the presence of interference.
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE1-2	SDG No.:	M3561
Lab Sample ID:	M3561-12	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010
7440-47-3	Chromium	2.32	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010
7440-50-8	Copper	20.7		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010
7439-92-1	Lead	6.66		1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:26	SW6010

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
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE2-1	SDG No.:	M3561
Lab Sample ID:	M3561-13	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010
7440-47-3	Chromium	1.25	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010
7440-50-8	Copper	1.68	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:30	SW6010

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
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* = indicates the duplicate analysis is not within control limits.
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE3-1	SDG No.:	M3561
Lab Sample ID:	M3561-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	11.0		1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010
7440-47-3	Chromium	6.51		1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010
7440-50-8	Copper	7.86	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010
7439-92-1	Lead	6.33		1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:42	SW6010

Color Before:	L.Yellow	Clarity Before:	Clear	Texture:	
Color After:	L.Yellow	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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LOD = Limit of Detection
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-7	SDG No.:	M3561
Lab Sample ID:	M3561-15	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010
7440-47-3	Chromium	1.93	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010
7440-50-8	Copper	19.1		1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:46	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/25/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	VE4-9	SDG No.:	M3561
Lab Sample ID:	M3561-16	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010
7440-47-3	Chromium	1.39	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010
7440-50-8	Copper	3.78	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:50	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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LOD = Limit of Detection
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	DAY-1	SDG No.:	M3561
Lab Sample ID:	M3561-17	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.6		1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010
7440-47-3	Chromium	5.00	U	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010
7440-50-8	Copper	1.98	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010
7439-92-1	Lead	2.15	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:54	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	L.Yellow	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
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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:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	FA4-9	SDG No.:	M3561
Lab Sample ID:	M3561-18	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	9.04	J	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010
7440-47-3	Chromium	3.49	J	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010
7440-50-8	Copper	1.84	J	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010
7439-92-1	Lead	1.83	J	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 18:58	SW6010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	Day Engineering, P.C.	Date Collected:	08/26/21
Project:	MNR Harmon OU-I OU-II	Date Received:	08/26/21
Client Sample ID:	EB-082621	SDG No.:	M3561
Lab Sample ID:	M3561-19	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	10.0	U	1	4.13	10.0	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010
7440-47-3	Chromium	5.00	U	1	0.74	5.00	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010
7440-50-8	Copper	10.0	U	1	0.89	10.0	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010
7439-92-1	Lead	6.00	U	1	1.64	6.00	ug/L	08/30/21 12:12	08/30/21 19:02	SW6010

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

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** M3561

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** M3561 **SAS No.:** M3561

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
LLICV01	Arsenic	18.9	20.0	95	80 - 120	P	08/30/2021	14:40	LB116077
	Chromium	11.0	10.0	110	80 - 120	P	08/30/2021	14:40	LB116077
	Copper	22.8	20.0	114	80 - 120	P	08/30/2021	14:40	LB116077
	Lead	12.8	12.0	107	80 - 120	P	08/30/2021	14:40	LB116077

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Day Engineering, P.C. **SDG No.:** M3561

Contract: DAYE02 **Lab Code:** CHEM **Case No.:** M3561 **SAS No.:** M3561

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
LLCCV01	Arsenic	18.2	20.0	91	80 - 120	P	08/30/2021	15:14	LB116077
	Chromium	10.6	10.0	106	80 - 120	P	08/30/2021	15:14	LB116077
	Copper	22.6	20.0	113	80 - 120	P	08/30/2021	15:14	LB116077
	Lead	14.1	12.0	117	80 - 120	P	08/30/2021	15:14	LB116077

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD32707
May 11, 2023
Sampling date: 8/10/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD32707 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E), PCB (8082A) and Inorganics (6020B).

DUSR ID	Sample ID	Laboratory ID
1	FA4-9	AD32707-001
2	PGW-2	AD32707-002
3	OU11-A	AD32707-003
4	OU11-B	AD32707-004
5	OU11-D	AD32707-005
6	OU11-C	AD32707-006
7	OU11-E	AD32707-007
8	OU11-F	AD32707-008
9	VE4-7	AD32707-009
10	VE-9	AD32707-010
11	FA4-16	AD32707-011
12	DAY-1	AD32707-012

Results were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD

- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in MS/MSD, Initial Calibration and Continuing Calibration.

Samples: DUSR ID#1, #3, #4, #10, #11 and #11MS/MSD were diluted due to high target analyte concentrations.

DATA COMPLETENESS
All criteria were met except the extraction log was illegible in the original package. Updated pages are attached.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.
Some surrogates were outside laboratory QC limits but within NFG QC limits, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except some target analytes were outside QC limits in the matrix spike and the matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec #11MS	%Rec #11MSD	%RPD	Qualifier	Associated Sample
Aroclor 1016	253	158	46	UJ	11
Aroclor 1260	816	353	79	UJ	11

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1-5, 7-12

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	1-5, 7-12

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
No MS/MSD was acquired for this analysis.

FIELD DUPLICATE
No field duplicate was acquired.

SERIAL DILUTION
No serial dilution was performed for these samples.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering **HC Project:** 2081214
Project: Roaring Brook MNR-Harmon Long

Hampton-Clarke (HC) received the following samples on 8/11/2022:

Client ID	HC Sample ID	Matrix	Analysis
FA4-9	AD32707-001	Aqueous	PCB (8082A)
PGW-2	AD32707-002	Aqueous	PCB (8082A)
OU11-A	AD32707-003	Aqueous	PCB (8082A)
OU11-B	AD32707-004	Aqueous	PCB (8082A)
OU11-D	AD32707-005	Aqueous	PCB (8082A)
OU11-C	AD32707-006	Aqueous	PCB (8082A)
OU11-E	AD32707-007	Aqueous	PCB (8082A)
OU11-F	AD32707-008	Aqueous	PCB (8082A)
VE4-7	AD32707-009	Aqueous	PCB (8082A)
VE-9	AD32707-010	Aqueous	PCB (8082A)
FA4-16	AD32707-011	Aqueous	PCB (8082A)
DAY-1	AD32707-012	Aqueous	VOA (8260D), PAH (8270E), PCB (8082A), Metals (6020B)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and/or Matrix Spike Duplicate for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral Analysis:

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 102702 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102719 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD32707-002, 008, 010, AD32602-002 had a surrogate recovery outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The serial dilution for batch 101940 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this 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 hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

9/29/22
Date

Reporting Limit Definitions

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 2M172457.D
Analysis Date: 08/17/22 22:07
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
71-43-2	**Benzene**	**0.50**	**0.82**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.87	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 680363

Total Target Concentration 0.82

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M172454.D
Analysis Date: 08/17/22 21:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
71-43-2	Benzene	0.50	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.87	U				

Worksheet #: 680363

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 10M92344.D
Analysis Date: 08/17/22 17:18
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**10**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**17**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**29**
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**3.5**
207-08-9	Benzo[k]fluoranthene	2.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB102702
Client Id:
Data File: 10M92345.D
Analysis Date: 08/17/22 17:41
Date Rec/Extracted: NA-08/16/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 680366

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form3
Recovery Data Laboratory Limits
QC Batch: WMB102719

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G127949.D	AD32707-011(20X)(MS)	9/8/2022 8:25:00 AM
Non Spike(If applicable):	6G127565.D	AD32707-011(20X)	8/23/2022 4:28:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	2529.64	0	1000	253 *	60	130
Aroclor-1260 -Total	1	8163.72	0	1000	816 *	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G127950.D	AD32707-011(20X)(MSD)	9/8/2022 8:36:00 AM
Non Spike(If applicable):	6G127565.D	AD32707-011(20X)	8/23/2022 4:28:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	1580.6	0	1000	158 *	60	130
Aroclor-1260 -Total	1	3532.04	0	1000	353 *	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-001(20X)
Client Id: FA4-9
Data File: 6G127517.D
Analysis Date: 08/22/22 13:01
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 20
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5.0	U	**11097-69-1**	**Aroclor-1254**	**5.0**	**140**
11104-28-2	Aroclor-1221	5.0	U	11096-82-5	Aroclor-1260	5.0	U
11141-16-5	Aroclor-1232	5.0	U	37324-23-5	Aroclor-1262	5.0	U
53469-21-9	Aroclor-1242	5.0	U	11100-14-4	Aroclor-1268	5.0	U
12672-29-6	Aroclor-1248	5.0	U	**1336-36-3**	**Aroclor (Total)**	**5.0**	**140**

Worksheet #: 680976

Total Target Concentration 140

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-002
Client Id: PGW-2
Data File: 6G127514.D
Analysis Date: 08/22/22 12:25
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**4.2**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**4.2**

Worksheet #: 680976

Total Target Concentration 4.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-003(5X)
Client Id: OU11-A
Data File: 6G127515.D
Analysis Date: 08/22/22 12:37
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**66**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**66**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-004(3X)
Client Id: OU11-B
Data File: 3G138874.D
Analysis Date: 08/16/22 20:30
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 3
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.75	U	**11097-69-1**	**(^)Aroclor-1254**	**0.75**	**28**
11104-28-2	Aroclor-1221	0.75	U	11096-82-5	Aroclor-1260	0.75	U
11141-16-5	Aroclor-1232	0.75	U	37324-23-5	Aroclor-1262	0.75	U
53469-21-9	Aroclor-1242	0.75	U	11100-14-4	Aroclor-1268	0.75	U
12672-29-6	Aroclor-1248	0.75	U	**1336-36-3**	**Aroclor (Total)**	**0.75**	**28**

Worksheet #: 680976

Total Target Concentration 28

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-005
Client Id: OU11-D
Data File: 3G138879.D
Analysis Date: 08/16/22 21:29
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	**11097-69-1**	**(^)Aroclor-1254**	**0.26**	**0.61**
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**0.61**

Worksheet #: 680976

Total Target Concentration 0.61

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-006
Client Id: OU11-C
Data File: 3G138882.D
Analysis Date: 08/16/22 22:04
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 680976

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-007
Client Id: OU11-E
Data File: 6G127512.D
Analysis Date: 08/22/22 12:02
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	**11097-69-1**	**(^)Aroclor-1254**	**0.26**	**0.36**
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**0.36**

Worksheet #: 680976

Total Target Concentration 0.36

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-008
Client Id: OU11-F
Data File: 3G138876.D
Analysis Date: 08/16/22 20:54
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**4.8**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**4.8**

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-009
Client Id: VE4-7
Data File: 6G127513.D
Analysis Date: 08/22/22 12:14
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**Aroclor-1254**	**0.25**	**3.7**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**3.7**

Worksheet #: 680976

Total Target Concentration 3.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-010(5X)
Client Id: VE-9
Data File: 6G127516.D
Analysis Date: 08/22/22 12:49
Date Rec/Extracted: 08/11/22-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**17**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**17**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-011(20X)
Client Id: FA4-16
Data File: 6G127565.D
Analysis Date: 08/23/22 16:28
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 20
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5.0	U	**11097-69-1**	**Aroclor-1254**	**5.0**	**67**
11104-28-2	Aroclor-1221	5.0	U	11096-82-5	Aroclor-1260	5.0	U
11141-16-5	Aroclor-1232	5.0	U	37324-23-5	Aroclor-1262	5.0	U
53469-21-9	Aroclor-1242	5.0	U	11100-14-4	Aroclor-1268	5.0	U
12672-29-6	Aroclor-1248	5.0	U	**1336-36-3**	**Aroclor (Total)**	**5.0**	**67**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32707-012
Client Id: DAY-1
Data File: 6G127452.D
Analysis Date: 08/18/22 15:34
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**(^)Aroclor-1254**	**0.25**	**6.5**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**6.5**

Worksheet #: 680976

Total Target Concentration 6.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: WMB102697
Client Id:
Data File: 3G138865.D
Analysis Date: 08/16/22 18:45
Date Rec/Extracted: NA-08/16/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.050	U	11097-69-1	Aroclor-1254	0.050	U
11104-28-2	Aroclor-1221	0.050	U	11096-82-5	Aroclor-1260	0.050	U
11141-16-5	Aroclor-1232	0.050	U	37324-23-5	Aroclor-1262	0.050	U
53469-21-9	Aroclor-1242	0.050	U	11100-14-4	Aroclor-1268	0.050	U
12672-29-6	Aroclor-1248	0.050	U				

Worksheet #: 680976

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32707-012	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DAY-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/12/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	11	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	11	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7440-50-8	Copper	10	16	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA
7439-92-1	Lead	3.0	8.5	1	50	100	08/22/22	101940	08222022A	40	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

QC102696 Pest

QC102697 PCB

Hampton-Clarke

Shaker Extraction: Pest (3510C) / PCB (3510C) / Other(_____):

Pest Batch No.: 102696
Start Ext Date/Time: 08/16/22 8:15 AM
End Ext. Date/Time: 08/16/22 3:26 PM
Recirculator: Start temp: 15:0 / 15:0
End temp: 14:8 / 15:0

PCB Batch No.: 102697
Shaker Used: 2, 3, 4
Condenser Used: 4215
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments LV	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 102696/97	x	x	1000ml	1 ml	10ul surr	AD32665 -001	EF.V377745 08/11/22
MBS 102696/97	x	x	↓	5ml			
MS 32602-002		x	500 ml	↓			
MSD 32602-002		x	↓				
MS 32665-001	x		100 ml				
MSD 32665-001	x		↓				
AD 32665-001	1		↓			1	NO EF
AD 32621-001	2		↓			2	1
EF.V 377745 08/11/22	x		↓			x	
AD 32627-003	3		950 ml	↓			
AD 32639-001	4	1	1000ml	1 ml	10ul surr		
AD 32664-001	5	2	↓	5ml			
AD 32665-001		3	100 ml	↓			
AD 32602-002		4	500 ml	2.5ml	½ surr		
AD 32622-001		5	1000 ml	5ml			
AD 32623-001		6	↓	↓			
-002		7	↓	↓			
AD 32707-001		8	↓	↓			
-002		9	↓	↓			
-003		10	↓	↓	Rack # 19		
-004		11	↓	↓			
-005		12	950 ml	↓			
-006		13	↓	↓			
-007		14	↓	↓			
-008		15	1000ml	↓			
-009		16	↓	↓			
-010		17	↓	↓			
Copper Cleanup:							
Sulfuric Acid Cleanup:	N/A	✓					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	370012	(Pest) / PCB / multi
↓	100	374762	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	375936	(Pest / PCB) multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 14765 Hexane: 14726 baked Na_2SO_4: 372186 Copper Powder: _____ Sulfuric Acid: _____

Relinquished By: LV Date: 08/16/22

Received By: AR Date: 8/17/22

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2022.doc

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD32715
May 12, 2023
Reissued; June 13, 2023
Sampling date: 8/11/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD32715 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(6/2021) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E, 8270E SIM), PCB (8082A), Inorganics (6020B) and Perfluorinated Hydrocarbons (537 modified).

DUSR ID	Sample ID	Laboratory ID	Laboratory #2 ID
1	VE2-1	AD32715-01	JD50085-1
2	VE1-4	AD32715-02	JD50085-2
3	VE4-11	AD32715-03	JD50085-3
4	VE1-2	AD32715-04	
5	DUPLICATE 08-11-22	AD32715-05	
6	EB 081122 1446	AD32715-06	JD50085-4
7	EB 081122 1505	AD32715-07	JD50085-5
8	EB 081122 1515 MS	AD32715-08	JD50085-5S
9	Trip Blank	AD32715-09	
10	EB 081122 1515 MSD	AD32715-10	JD50085-5D

The analysis of the Perfluorinated Hydrocarbons was subcontracted to SGS (Laboratory #2)

All target analytes in all of the analyses, except method 537 modified, were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation

-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#6 was not recorded. This sample was analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
#1M163698.D	m&p-Xylene	22.06	UJ/J	MB/MBS104010, 1-5

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met except the raw data for the initial calibration and continuing calibration off instrument GCMS_12Sm was not included in the original package. Those pages are attached.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the %D of 1,4-Dioxane was not recorded on Form 7. The %D was within limits, so no further action is required.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#4. There were no associated target analytes detected in this sample, so no further action is required.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Initial Calibration and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the extraction log was illegible in the original package. An updated page is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of a surrogate was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified.

Surrogate	Column	Qualifier	Associated Sample
DCBP	1, 2	UJ/J	4, 5

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	3

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	3

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Holding Times, Serial Dilution and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met Form 3 and the serial dilution was not included in the original package. Those pages are attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#6 was not recorded. Target analytes in this sample should be qualified as estimated.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met except As was detected in DUSR ID#5 but was not detected in #4.

SERIAL DILUTION
All criteria were met except a target analyte was outside QC limits and should be qualified as estimated in the associated samples.

Serial Dilution ID	Target Analyte	%D	Qualifier	Associated Sample
#1SD	Cr	61	UJ	1

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Spike Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and MS/MSD.

Samples: DUSR ID#1-3 were diluted due to matrix interference.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of several surrogates was outside QC limits and should be qualified as estimated. Associated target analytes in these samples should be qualified as estimated.

Surrogate	Qualifier	Associated Sample
13C5-PFHxA	UJ/J	3
d5-NEtFOSAA	UJ/J	2RE
13C2-PFTeDA	UJ/J	1, 1RE, 3, 3RE
13C3-PFBS	UJ/J	3
13C4-PFHpA	UJ/J	3
13C8-FOSA	UJ/J	1-3, 1RE-3RE

BLANKS
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met except a target analyte was outside QC limits in the matrix spike and matrix spike duplicate and should be qualified as estimated.

Target Analyte	%Rec 5MS	%Rec 5MSD	%RPD	Qualifier	Associated Sample
PFTA	-	-	44	UJ	5

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on most of the target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering
Project: MNR-Harmon Yard

HC Project: 2081222

Hampton-Clarke (HC) received the following samples on 8/11/2022:

Client ID	HC Sample ID	Matrix	Analysis
VE 2-1	AD32715-001	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 1-4	AD32715-002	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 4-11	AD32715-003	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
VE 1-2	AD32715-004	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
DUPLICATE 08-11-22	AD32715-005	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
EB 081122 1446	AD32715-006	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B), PFAs (EPA 537 mod)*
EB 081122 1505	AD32715-007	Aqueous	PFAs (EPA 537 mod)*
EB 081122 1515 MS	AD32715-008	Aqueous	PFAs (EPA 537 mod)*
Trip Blank	AD32715-009	Aqueous	No Analysis
EB 081122 1515 MSD	AD32715-010	Aqueous	PFAs (EPA 537 mod)*

* - Indicates analysis was performed by a subcontracted laboratory.

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches 104004, 104010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batch 104004. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD for batch 104004 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 104010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 102735 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102735 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 102719 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD32715-004, -005 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Metals Analysis:

The serial dilution for batch 101940 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD32715-001, -002, -003, -006, -007, -008, -010 were submitted to SGS for PFAs analysis.

I certify that this 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 hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	9/30/22 Date

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 1M163723.D
Analysis Date: 08/19/22 02:09
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	**108-88-3**	**Toluene**	**1.0**	**8.3**
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 8.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 1M163724.D
Analysis Date: 08/19/22 02:29
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 1M163725.D
Analysis Date: 08/19/22 02:50
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 1M163726.D
Analysis Date: 08/19/22 03:11
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 1M163727.D
Analysis Date: 08/19/22 03:32
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 2M172480.D
Analysis Date: 08/18/22 05:42
Date Rec/Extracted: 08/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M163698.D **Instrument:** GCMS 1

Cont Calibration Date/Time 8/18/2022 5:31:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.80	15.93	20	20		0.112	0.108	20.36	
cis-1,3-Dichloropropene	1	0		5.90	18.18	20	20	0.2	0.377	0.343	9.08	
trans-1,3-Dichloropropene	1	0		6.20	18.28	20	20	0.1	0.348	0.318	8.61	
Ethyl methacrylate	1	0		6.22	16.50	20	20	0.5	0.170	0.140	17.49	
1,1,2-Trichloroethane	1	0		6.31	21.17	20	20	0.1	0.230	0.243	5.83	
1,2-Dibromoethane	1	0		6.62	21.33	20	20	0.1	0.242	0.258	6.65	
1,3-Dichloropropane	1	0		6.41	20.73	20	20		0.372	0.385	3.64	
4-Methyl-2-Pentanone	1	0		5.97	21.74	20	20	0.1	0.161	0.175	8.72	
2-Hexanone	1	0		6.43	21.70	20	20	0.1	0.109	0.118	8.49	
Tetrachloroethene	1	0		6.41	19.46	20	20	0.2	0.257	0.250	2.72	
Toluene-d8	1	0	S	6.06	28.87	30	**		1.181	1.137	3.78	
Toluene	1	0		6.09	21.02	20	20	0.4	0.602	0.632	5.09	
1,1,1,2-Tetrachloroethane	1	0		6.92	20.25	20	20		0.273	0.276	1.25	
Chlorobenzene	1	0		6.89	20.50	20	20	0.5	0.714	0.732	2.51	
1,4-Dichlorobenzene-d4	1	0	I	8.18	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.14	15.35	20	20	0.5	0.549	0.541	23.23	C1
n-Amyl acetate	1	0		7.27	20.24	20	20	0.5	0.454	0.460	1.21	
Bromoform	1	0		7.35	24.08	20	20	0.1	0.322	0.388	20.42	
Ethylbenzene	1	0		6.93	21.77	20	20	0.1	0.510	0.556	8.83	
1,1,2,2-Tetrachloroethane	1	0		7.57	25.96	20	20	0.1	0.426	0.552	29.82	C1
Bromofluorobenzene	1	0	S	7.52	32.14	30	**		0.795	0.852	7.15	
Styrene	1	0		7.22	24.07	20	20	0.3	1.099	1.323	20.33	
m&p-Xylenes	1	0		6.99	48.82	40	20	0.1	0.656	0.801	22.06	C1
o-Xylene	1	0		7.22	23.51	20	20	0.3	0.670	0.787	17.56	
trans-1,4-Dichloro-2-butene	1	0		7.60	19.20	20	20		0.155	0.149	3.98	
1,3-Dichlorobenzene	1	0		8.14	22.46	20	20	0.6	0.858	0.963	12.28	
1,4-Dichlorobenzene	1	0		8.19	23.05	20	20	0.5	0.888	1.023	15.25	
1,2-Dichlorobenzene	1	0		8.42	22.70	20	20	0.4	0.807	0.916	13.52	
Isopropylbenzene	1	0		7.42	23.76	20	20	0.1	1.493	1.773	18.80	
Cyclohexanone	1	0		7.49	119.13	100	20		0.012	0.014	19.13	
Camphene	1	0		7.59	18.91	20	20		0.415	0.393	5.43	
1,2,3-Trichloropropane	1	0		7.61	23.99	20	20		0.525	0.630	19.95	
2-Chlorotoluene	1	0		7.72	24.08	20	20		0.970	1.168	20.40	
p-Ethyltoluene	1	0		7.71	21.66	20	20		1.549	1.677	8.30	
4-Chlorotoluene	1	0		7.77	23.80	20	20		0.933	1.110	19.00	
n-Propylbenzene	1	0		7.64	23.58	20	20		1.653	1.948	17.90	
Bromobenzene	1	0		7.62	23.17	20	20		0.945	1.095	15.86	
1,3,5-Trimethylbenzene	1	0		7.73	23.77	20	20		1.143	1.359	18.86	
Butyl methacrylate	1	0		7.74	19.05	20	20	0.5	0.343	0.327	4.76	
t-Butylbenzene	1	0		7.93	22.21	20	20		1.173	1.303	11.07	
1,2,4-Trimethylbenzene	1	0		7.96	22.88	20	20		1.194	1.366	14.39	
sec-Butylbenzene	1	0		8.06	21.76	20	20		1.340	1.458	8.80	
4-Isopropyltoluene	1	0		8.13	20.81	20	20		1.183	1.231	4.03	
n-Butylbenzene	1	0		8.37	20.16	20	20		1.209	1.219	0.81	
p-Diethylbenzene	1	0		8.35	18.47	20	20		0.725	0.670	7.67	
1,2,4,5-Tetramethylbenzene	1	0		8.81	16.10	20	20		0.938	0.905	19.51	
1,2-Dibromo-3-Chloropropane	1	0		8.86	26.11	20	20	0.05	0.102	0.133	30.57	C1
Camphor	1	0		9.30	173.64	200	20		0.034	0.041	13.18	
Hexachlorobutadiene	1	0		9.45	20.17	20	20		0.215	0.216	0.84	
1,2,4-Trichlorobenzene	1	0		9.36	22.47	20	20	0.2	0.432	0.485	12.34	
1,2,3-Trichlorobenzene	1	0		9.66	23.58	20	20		0.362	0.426	17.88	
Naphthalene	1	0		9.52	17.20	20	20		0.956	1.208	13.98	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M163702.D
Analysis Date: 08/18/22 18:54
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M172454.D
Analysis Date: 08/17/22 21:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U

Worksheet #: 680361

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M114930.D	WMB102735	A	08/19/22 10:00	1		NA	NA	106	96	NA	118
9M114936.D	AD32715-001	A	08/19/22 12:18	1		NA	NA	105	102	NA	120
9M114937.D	AD32715-002	A	08/19/22 12:41	1		NA	NA	106	106	NA	112
9M114938.D	AD32715-003	A	08/19/22 13:04	1		NA	NA	109	107	NA	121
9M114939.D	AD32715-004	A	08/19/22 13:28	1		NA	NA	130	127	NA	130
9M114940.D	AD32715-005	A	08/19/22 13:51	1		NA	NA	121	124	NA	128
9M114935.D	AD32715-006	A	08/19/22 11:55	1		NA	NA	114	108	NA	127
9M114929.D	WMB102735(MS)	A	08/19/22 09:37	1		NA	NA	102	89	NA	126
9M114932.D	AD32618-001(T)	A	08/19/22 10:46	1		NA	NA	112	103	NA	120
9M114933.D	AD32618-001(T)(MS)	A	08/19/22 11:09	1		NA	NA	107	95	NA	122
9M114934.D	AD32618-001(T)(MSD)	A	08/19/22 11:32	1		NA	NA	107	90	NA	122

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 9M114936.D
Analysis Date: 08/19/22 12:18
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 12M63601.D
Analysis Date: 08/19/22 12:28
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 9M114937.D
Analysis Date: 08/19/22 12:41
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 12M63602.D
Analysis Date: 08/19/22 12:50
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 9M114938.D
Analysis Date: 08/19/22 13:04
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 12M63603.D
Analysis Date: 08/19/22 13:11
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 9M114939.D
Analysis Date: 08/19/22 13:28
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**5.5**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**12**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**12**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 12M63604.D
Analysis Date: 08/19/22 13:33
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet # 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 9M114940.D
Analysis Date: 08/19/22 13:51
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**4.3**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**12**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**10**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 12M63605.D
Analysis Date: 08/19/22 13:55
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 654701 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 9M114935.D
Analysis Date: 08/19/22 11:55
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 680312

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 12M63600.D
Analysis Date: 08/19/22 12:06
Date Rec/Extracted: 08/11/22-08/18/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 654701

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6G127443.D	WMB102719	A	08/18/22 13:49	1		87	84	98	97		
6G127457.D	AD32715-001	A	08/18/22 16:33	1		81	83	93	92		
6G127455.D	AD32715-002	A	08/18/22 16:09	1		97	95	108	104		
6G127456.D	AD32715-003	A	08/18/22 16:21	1		95	95	96	94		
6G127454.D	AD32715-004	A	08/18/22 15:58	1		115	116	206 *	198 *		
6G127453.D	AD32715-005	A	08/18/22 15:46	1		109	110	191 *	189 *		
6G127458.D	AD32715-006	A	08/18/22 16:45	1		81	76	90	90		
6G127442.D	WMB102719(MS)	A	08/18/22 13:37	1		86	79	103	108		
6G127565.D	AD32707-011(20X)	A	08/23/22 16:28	20		43	45	53	55		
6G127949.D	AD32707-011(20X)(MS)	A	09/08/22 08:25	20		89	101	123	111		
6G127950.D	AD32707-011(20X)(MS	A	09/08/22 08:36	20		98	95	117	118		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	39-132
S2=TCMX-Surrogate	100	39-132
S3=DCB-Surrogate	100	39-142
S4=DCB-Surrogate	100	39-142

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-001
Client Id: VE 2-1
Data File: 6G127457.D
Analysis Date: 08/18/22 16:33
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-002
Client Id: VE 1-4
Data File: 6G127455.D
Analysis Date: 08/18/22 16:09
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-003
Client Id: VE 4-11
Data File: 6G127456.D
Analysis Date: 08/18/22 16:21
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	**11097-69-1**	**Aroclor-1254**	**0.25**	**3.0**
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**3.0**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-004
Client Id: VE 1-2
Data File: 6G127454.D
Analysis Date: 08/18/22 15:58
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-005
Client Id: DUPLICATE 08-11-22
Data File: 6G127453.D
Analysis Date: 08/18/22 15:46
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD32715-006
Client Id: EB 081122 1446
Data File: 6G127458.D
Analysis Date: 08/18/22 16:45
Date Rec/Extracted: 08/11/22-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: WMB102719
Client Id:
Data File: 6G127443.D
Analysis Date: 08/18/22 13:49
Date Rec/Extracted: NA-08/17/22
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U				

Worksheet #: 680895

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 2-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/14/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	26	MSMS4_7800SWA	

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7440-50-8	Copper	10	34	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA
7439-92-1	Lead	3.0	14	1	50	100	08/22/22	101940	08222022A	35	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 4-11	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	36	MSMS4_7800	SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-2	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	2.4	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7440-50-8	Copper	10	29	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	
7439-92-1	Lead	3.0	21	1	50	100	08/22/22	101940	08222022A	37	MSMS4_7800SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-005	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUPLICATE 08-11-22	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	4.3	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	7.5	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7440-50-8	Copper	10	160	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA
7439-92-1	Lead	3.0	51	1	50	100	08/22/22	101940	08222022A	38	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD32715-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	EB 081122 1446	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	8/17/2022	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7440-50-8	Copper	10	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	
7439-92-1	Lead	3.0	ND	1	50	100	08/22/22	101940	08222022A	39	MSMS4_7800SWA	

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Hampton Clarke-Veritech	**Job No:**	JD50085
Site:	Project# 2081222	**Report Date**	8/31/2022 6:35:03 PM

On 08/16/2022, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD50085 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** F:OP92717

- The data for EPA 537M BY ID meets quality control requirements.
- JD50085-1: Analysis performed at SGS Orlando, FL.
- JD50085-1: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-2: Analysis performed at SGS Orlando, FL.
- JD50085-2: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-3: Analysis performed at SGS Orlando, FL.
- JD50085-3: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD50085-4: Analysis performed at SGS Orlando, FL.
- JD50085-5: Analysis performed at SGS Orlando, FL.
- JD50085-1 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
- JD50085-3 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ **Job No:** JD50085

Site: HCVNJF: Project# 2081222 **Report Date:** 8/31/2022 6:23:57 PM

On 08/18/2022, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of JD50085 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** OP92717

Sample(s) JD50085-5MS, JD50085-5MSD were used as the QC samples indicated.

RPD(s) for MSD for Perfluorotetradecanoic acid are outside control limits for sample OP92717-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) JD50085-1, JD50085-2, JD50085-3 have surrogates outside control limits.

JD50085-1: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-1 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

JD50085-1 for 13C5-PFPeA: Outside control limits.

JD50085-1 for 13C8-FOSA: Outside control limits.

JD50085-2 for 13C8-FOSA: Outside control limits.

JD50085-2: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-3: Dilution required due to matrix interference (ID recovery standard failure).

JD50085-3 for 13C3-PFBS: Outside control limits.

JD50085-3 for 13C4-PFBA: Outside control limits.

JD50085-3 for 13C4-PFHpA: Outside control limits.

JD50085-3 for 13C5-PFHxA: Outside control limits.

JD50085-3 for 13C5-PFPeA: Outside control limits.

JD50085-3 for 13C8-FOSA: Outside control limits.

JD50085-3 for PFOSA: Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-001 VE 2-1		
Lab Sample ID:	JD50085-1	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4045.D	1	08/30/22 07:48	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4112.D	5	08/31/22 03:01	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0044	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	0.0089	0.0045	ug/l	
307-24-4	Perfluorohexanoic acid	0.0048	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0046	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	0.0073	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0028	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0154	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0605	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-001 VE 2-1		
Lab Sample ID:	JD50085-1	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	56%	73%	35-135%
	13C5-PFPeA	48% e	74%	50-150%
	13C5-PFHxA	71%	96%	50-150%
	13C4-PFHpA	72%	95%	50-150%
	13C8-PFOA	66%	94%	50-150%
	13C9-PFNA	59%	95%	50-150%
	13C6-PFDA	75%	100%	50-150%
	13C7-PFUnDA	74%	95%	40-140%
	13C2-PFDoDA	72%	86%	40-140%
	13C2-PFTeDA	40%	32%	30-130%
	13C3-PFBS	58%	77%	50-150%
	13C3-PFHxS	81%	98%	50-150%
	13C8-PFOS	74%	93%	50-150%
	13C8-FOSA	12% e	23% e	30-130%
	d3-MeFOSAA	61%	120%	40-140%
	d5-EtFOSAA	75%	123%	40-140%
	13C2-6:2FTS	73%	104%	50-150%
	13C2-8:2FTS	85%	113%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
(e) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-002 VE 1-4		
Lab Sample ID:	JD50085-2	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4046.D	1	08/30/22 08:03	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4113.D	5	08/31/22 03:16	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0041	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0198	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	0.0097	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0082	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	0.0123	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	0.0019	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0555	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-002 VE 1-4		
Lab Sample ID:	JD50085-2	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	70%	96%	35-135%
	13C5-PFPeA	68%	95%	50-150%
	13C5-PFHxA	91%	110%	50-150%
	13C4-PFHpA	91%	111%	50-150%
	13C8-PFOA	89%	109%	50-150%
	13C9-PFNA	85%	106%	50-150%
	13C6-PFDA	79%	103%	50-150%
	13C7-PFUnDA	81%	92%	40-140%
	13C2-PFDoDA	79%	93%	40-140%
	13C2-PFTeDA	73%	73%	30-130%
	13C3-PFBS	76%	98%	50-150%
	13C3-PFHxS	93%	114%	50-150%
	13C8-PFOS	82%	99%	50-150%
	13C8-FOSA	29% [d]	45%	30-130%
	d3-MeFOSAA	94%	149% [d]	40-140%
	d5-EtFOSAA	112%	160% [d]	40-140%
	13C2-6:2FTS	95%	120%	50-150%
	13C2-8:2FTS	94%	125%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-003 VE 4-11		
Lab Sample ID:	JD50085-3	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4049.D	1	08/30/22 08:49	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2 [b]	5Q4114.D	5	08/31/22 03:32	AFL	08/24/22 09:00	F:OP92717	F:S5Q64

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND [c]	0.018	0.0089	ug/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	0.0089	0.0045	ug/l	
307-24-4	Perfluorohexanoic acid	ND [c]	0.0089	0.0045	ug/l	
375-85-9	Perfluoroheptanoic acid	ND [c]	0.0089	0.0045	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [c]	0.0089	0.0045	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0094	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0066	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	0.018	0.0089	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-003 VE 4-11		
Lab Sample ID:	JD50085-3	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	34% [e]	66%	35-135%
	13C5-PFPeA	33% [e]	55%	50-150%
	13C5-PFHxA	45% [e]	78%	50-150%
	13C4-PFHpA	49% [e]	84%	50-150%
	13C8-PFOA	55%	85%	50-150%
	13C9-PFNA	62%	90%	50-150%
	13C6-PFDA	71%	89%	50-150%
	13C7-PFUnDA	71%	82%	40-140%
	13C2-PFDoDA	68%	75%	40-140%
	13C2-PFTeDA	47%	39%	30-130%
	13C3-PFBS	41% [e]	64%	50-150%
	13C3-PFHxS	67%	87%	50-150%
	13C8-PFOS	69%	89%	50-150%
	13C8-FOSA	11% [e]	19% [e]	30-130%
	d3-MeFOSAA	59%	109%	40-140%
	d5-EtFOSAA	77%	111%	40-140%
	13C2-6:2FTS	64%	91%	50-150%
	13C2-8:2FTS	81%	104%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits due to matrix interference. Insufficient sample for re-extraction.
(e) Outside control limits.

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-006 EB 081122 1446		
Lab Sample ID:	JD50085-4	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4050.D	1	08/30/22 09:04	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.0036	0.0018	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-006 EB 081122 1446		
Lab Sample ID:	JD50085-4	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	111%		35-135%
	13C5-PFPeA	116%		50-150%
	13C5-PFHxA	116%		50-150%
	13C4-PFHpA	117%		50-150%
	13C8-PFOA	119%		50-150%
	13C9-PFNA	117%		50-150%
	13C6-PFDA	111%		50-150%
	13C7-PFUnDA	107%		40-140%
	13C2-PFDoDA	98%		40-140%
	13C2-PFTeDA	91%		30-130%
	13C3-PFBS	115%		50-150%
	13C3-PFHxS	114%		50-150%
	13C8-PFOS	109%		50-150%
	13C8-FOSA	108%		30-130%
	d3-MeFOSAA	105%		40-140%
	d5-EtFOSAA	98%		40-140%
	13C2-6:2FTS	112%		50-150%
	13C2-8:2FTS	104%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	AD32715-007 EB 081122 1505		
Lab Sample ID:	JD50085-5	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5Q4051.D	1	08/30/22 09:20	AFL	08/24/22 09:00	F:OP92717	F:S5Q63
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0018	0.00089	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00089	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00089	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00089	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00089	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00089	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00089	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00089	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00089	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00089	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00089	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00089	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00089	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.0036	0.0018	ug/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0036	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0036	0.0018	ug/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AD32715-007 EB 081122 1505		
Lab Sample ID:	JD50085-5	**Date Sampled:**	08/11/22
Matrix:	AQ - Water	**Date Received:**	08/16/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	Project# 2081222		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	116%		35-135%
	13C5-PFPeA	121%		50-150%
	13C5-PFHxA	120%		50-150%
	13C4-PFHpA	119%		50-150%
	13C8-PFOA	122%		50-150%
	13C9-PFNA	120%		50-150%
	13C6-PFDA	115%		50-150%
	13C7-PFUnDA	110%		40-140%
	13C2-PFDoDA	104%		40-140%
	13C2-PFTeDA	97%		30-130%
	13C3-PFBS	119%		50-150%
	13C3-PFHxS	118%		50-150%
	13C8-PFOS	113%		50-150%
	13C8-FOSA	109%		30-130%
	d3-MeFOSAA	107%		40-140%
	d5-EtFOSAA	98%		40-140%
	13C2-6:2FTS	114%		50-150%
	13C2-8:2FTS	108%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Method Blank Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MB	5Q4038.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0040	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	35-135%
	13C5-PFPeA	106%	50-150%
	13C5-PFHxA	107%	50-150%
	13C4-PFHpA	109%	50-150%
	13C8-PFOA	108%	50-150%
	13C9-PFNA	108%	50-150%
	13C6-PFDA	108%	50-150%
	13C7-PFUnDA	105%	40-140%
	13C2-PFDoDA	100%	40-140%
	13C2-PFTeDA	81%	30-130%
	13C3-PFBS	106%	50-150%

Method Blank Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MB	5Q4038.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	106%	50-150%
	13C8-PFOS	107%	50-150%
	13C8-FOSA	90%	30-130%
	d3-MeFOSAA	100%	40-140%
	d5-EtFOSAA	92%	40-140%
	13C2-4:2FTS	99%	50-150%
	13C2-6:2FTS	102%	50-150%
	13C2-8:2FTS	102%	50-150%
	13C3-HFPO-DA	96%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q63-IBLK	5Q3974.D	1	08/29/22	AL	n/a	n/a	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	102%	50-150%
	13C5-PFPeA	104%	50-150%
	13C5-PFHxA	103%	50-150%
	13C4-PFHpA	104%	50-150%
	13C8-PFOA	103%	50-150%
	13C9-PFNA	104%	50-150%
	13C6-PFDA	103%	50-150%
	13C7-PFUnDA	102%	50-150%
	13C2-PFDoDA	100%	50-150%
	13C2-PFTeDA	93%	50-150%
	13C3-PFBS	103%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q63-IBLK	5Q3974.D	1	08/29/22	AL	n/a	n/a	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	104%	50-150%
	13C8-PFOS	103%	50-150%
	13C8-FOSA	102%	50-150%
	d3-MeFOSAA	97%	50-150%
	d5-EtFOSAA	96%	50-150%
	13C2-4:2FTS	96%	50-150%
	13C2-6:2FTS	96%	50-150%
	13C2-8:2FTS	96%	50-150%

Instrument Blank

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q64-IBLK	5Q4062.D	1	08/30/22	AL	n/a	n/a	S5Q64

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD50085-1, JD50085-2, JD50085-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	101%	50-150%
	13C5-PFPeA	104%	50-150%
	13C5-PFHxA	103%	50-150%
	13C4-PFHpA	104%	50-150%
	13C8-PFOA	101%	50-150%
	13C9-PFNA	102%	50-150%
	13C6-PFDA	104%	50-150%
	13C7-PFUnDA	101%	50-150%
	13C2-PFDoDA	103%	50-150%
	13C2-PFTeDA	103%	50-150%
	13C3-PFBS	104%	50-150%
	13C3-PFHxS	103%	50-150%
	13C8-PFOS	103%	50-150%
	13C8-FOSA	93%	50-150%
	d3-MeFOSAA	93%	50-150%
	d5-EtFOSAA	92%	50-150%
	13C2-4:2FTS	96%	50-150%
	13C2-6:2FTS	94%	50-150%
	13C2-8:2FTS	97%	50-150%

Blank Spike Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-BS	5Q4037.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0661	83	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0669	84	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0676	85	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0755	94	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0667	83	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0680	85	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0681	85	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0681	85	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0675	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0610	76	60-140
376-06-7	Perfluorotetradecanoic acid	0.08	0.0699	87	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0675	84	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0671	84	70-130
375-92-8	Perfluoroheptanesulfonic acid	0.08	0.0672	84	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0660	83	70-130
335-77-3	Perfluorodecanesulfonic acid	0.08	0.0580	73	60-130
754-91-6	PFOSA	0.08	0.0671	84	70-130
2355-31-9	MeFOSAA	0.08	0.0673	84	70-130
2991-50-6	EtFOSAA	0.08	0.0688	86	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.08	0.0681	85	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	0.08	0.0673	84	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	115%	35-135%
	13C5-PFPeA	119%	50-150%
	13C5-PFHxA	118%	50-150%
	13C4-PFHpA	120%	50-150%
	13C8-PFOA	119%	50-150%
	13C9-PFNA	120%	50-150%
	13C6-PFDA	119%	50-150%
	13C7-PFUnDA	116%	40-140%
	13C2-PFDoDA	116%	40-140%
	13C2-PFTeDA	99%	30-130%
	13C3-PFBS	117%	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-BS	5Q4037.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries	BSP	Limits
	13C3-PFHxS	120%	50-150%
	13C8-PFOS	120%	50-150%
	13C8-FOSA	106%	30-130%
	d3-MeFOSAA	110%	40-140%
	d5-EtFOSAA	107%	40-140%
	13C2-4:2FTS	114%	50-150%
	13C2-6:2FTS	118%	50-150%
	13C2-8:2FTS	118%	50-150%
	13C3-HFPO-DA	108%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MS	5Q4052.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
OP92717-MSD	5Q4053.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
JD50085-5	5Q4051.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	Compound	JD50085-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	ND		0.0714	0.0626	88	0.0833	0.0772	93	21	70-130/30
2706-90-3	Perfluoropentanoic acid	ND		0.0714	0.0640	90	0.0833	0.0780	94	20	70-130/30
307-24-4	Perfluorohexanoic acid	ND		0.0714	0.0644	90	0.0833	0.0784	94	20	70-130/30
375-85-9	Perfluoroheptanoic acid	ND		0.0714	0.0733	103	0.0833	0.0892	107	20	70-130/30
335-67-1	Perfluorooctanoic acid	ND		0.0714	0.0638	89	0.0833	0.0781	94	20	70-130/30
375-95-1	Perfluorononanoic acid	ND		0.0714	0.0654	92	0.0833	0.0798	96	20	70-130/30
335-76-2	Perfluorodecanoic acid	ND		0.0714	0.0655	92	0.0833	0.0793	95	19	70-130/30
2058-94-8	Perfluoroundecanoic acid	ND		0.0714	0.0626	88	0.0833	0.0785	94	23	70-130/30
307-55-1	Perfluorododecanoic acid	ND		0.0714	0.0655	92	0.0833	0.0809	97	21	70-130/30
72629-94-8	Perfluorotridecanoic acid	ND		0.0714	0.0613	86	0.0833	0.0763	92	22	60-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.0714	0.0585	82	0.0833	0.0917	110	44*	70-130/30
375-73-5	Perfluorobutanesulfonic acid	ND		0.0714	0.0643	90	0.0833	0.0784	94	20	70-130/30
355-46-4	Perfluorohexanesulfonic acid	ND		0.0714	0.0656	92	0.0833	0.0798	96	20	70-130/30
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0714	0.0679	95	0.0833	0.0840	101	21	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0714	0.0643	90	0.0833	0.0799	96	22	70-130/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0714	0.0535	75	0.0833	0.0663	80	21	60-130/30
754-91-6	PFOSA	ND		0.0714	0.0632	88	0.0833	0.0791	95	22	70-130/30
2355-31-9	MeFOSAA	ND		0.0714	0.0663	93	0.0833	0.0805	97	19	70-130/30
2991-50-6	EtFOSAA	ND		0.0714	0.0692	97	0.0833	0.0826	99	18	70-130/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.0714	0.0657	92	0.0833	0.0795	95	19	70-130/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.0714	0.0666	93	0.0833	0.0792	95	17	70-130/30

CAS No.	ID Standard Recoveries	MS	MSD	JD50085-5	Limits
	13C4-PFBA	110%	106%	116%	35-135%
	13C5-PFPeA	115%	112%	121%	50-150%
	13C5-PFHxA	114%	112%	120%	50-150%
	13C4-PFHpA	115%	112%	119%	50-150%
	13C8-PFOA	116%	111%	122%	50-150%
	13C9-PFNA	113%	108%	120%	50-150%
	13C6-PFDA	108%	102%	115%	50-150%
	13C7-PFUnDA	103%	97%	110%	40-140%
	13C2-PFDoDA	95%	91%	104%	40-140%
	13C2-PFTeDA	101%	87%	97%	30-130%
	13C3-PFBS	114%	110%	119%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP92717-MS	5Q4052.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
OP92717-MSD	5Q4053.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63
JD50085-5	5Q4051.D	1	08/30/22	AL	08/24/22	OP92717	S5Q63

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD50085-1, JD50085-2, JD50085-3, JD50085-4, JD50085-5

CAS No.	ID Standard Recoveries	MS	MSD	JD50085-5	Limits
	13C3-PFHxS	112%	108%	118%	50-150%
	13C8-PFOS	107%	100%	113%	50-150%
	13C8-FOSA	101%	95%	109%	30-130%
	d3-MeFOSAA	99%	93%	107%	40-140%
	d5-EtFOSAA	92%	89%	98%	40-140%
	13C2-4:2FTS	111%	109%		50-150%
	13C2-6:2FTS	113%	110%	114%	50-150%
	13C2-8:2FTS	105%	101%	108%	50-150%
	13C3-HFPO-DA	113%	108%		50-150%

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JD50085-1	5Q4112.D	73	74	96	95	94	95	100	95
JD50085-1	5Q4045.D	56	48* [a]	71	72	66	59	75	74
JD50085-2	5Q4113.D	96	95	110	111	109	106	103	92
JD50085-2	5Q4046.D	70	68	91	91	89	85	79	81
JD50085-3	5Q4114.D	66	55	78	84	85	90	89	82
JD50085-3	5Q4049.D	34* [a]	33* [a]	45* [a]	49* [a]	55	62	71	71
JD50085-4	5Q4050.D	111	116	116	117	119	117	111	107
JD50085-5	5Q4051.D	116	121	120	119	122	120	115	110
OP92717-BS	5Q4037.D	115	119	118	120	119	120	119	116
OP92717-MB	5Q4038.D	104	106	107	109	108	108	108	105
OP92717-MS	5Q4052.D	110	115	114	115	116	113	108	103
OP92717-MSD	5Q4053.D	106	112	112	112	111	108	102	97

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	35-135%
S2 = 13C5-PFPeA	50-150%
S3 = 13C5-PFHxA	50-150%
S4 = 13C4-PFHpA	50-150%
S5 = 13C8-PFOA	50-150%
S6 = 13C9-PFNA	50-150%
S7 = 13C6-PFDA	50-150%
S8 = 13C7-PFUnDA	40-140%

(a) Outside control limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD50085
Account: ALNJ SGS Dayton, NJ
Project: HCVNJF: Project# 2081222

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JD50085-1	5Q4112.D	86	32	77	98	93	23* [a]	120	123
JD50085-1	5Q4045.D	72	40	58	81	74	12* [a]	61	75
JD50085-2	5Q4113.D	93	73	98	114	99	45	149* [a]	160* [a]
JD50085-2	5Q4046.D	79	73	76	93	82	29* [a]	94	112
JD50085-3	5Q4114.D	75	39	64	87	89	19* [a]	109	111
JD50085-3	5Q4049.D	68	47	41* [a]	67	69	11* [a]	59	77
JD50085-4	5Q4050.D	98	91	115	114	109	108	105	98
JD50085-5	5Q4051.D	104	97	119	118	113	109	107	98
OP92717-BS	5Q4037.D	116	99	117	120	120	106	110	107
OP92717-MB	5Q4038.D	100	81	106	106	107	90	100	92
OP92717-MS	5Q4052.D	95	101	114	112	107	101	99	92
OP92717-MSD	5Q4053.D	91	87	110	108	100	95	93	89

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	40-140%
S10 = 13C2-PFTeDA	30-130%
S11 = 13C3-PFBS	50-150%
S12 = 13C3-PFHxS	50-150%
S13 = 13C8-PFOS	50-150%
S14 = 13C8-FOSA	30-130%
S15 = d3-MeFOSAA	40-140%
S16 = d5-EtFOSAA	40-140%

(a) Outside control limits.

2081222 0342

Form 6
Initial Calibration

Method: EPA8270E SIM

Instrument: GCMS_12Sm

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	12M63510.D	CAL SIM@5PPM	08/15/22 11:52	2	12M63511.D	CAL SIM@0.02PPM	08/15/22 12:14
3	12M63503.D	CAL SIM@0.1PPM	08/15/22 09:21	4	12M63504.D	CAL SIM@0.2PPM	08/15/22 09:43
5	12M63506.D	CAL SIM@0.5PPM	08/15/22 10:26	6	12M63507.D	CAL SIM@1PPM	08/15/22 10:48
7	12M63508.D	CAL SIM@10PPM	08/15/22 11:09	8	12M63512.D	CAL SIM@19.6PPM	08/15/22 12:37

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	1.0064	----	1.2150	1.2030	1.0470	1.1278	0.9642	0.9220	----	1.07	2.58	0.999	1.00	11		5.00		0.10	0.20	0.50	1.00	10.00	19.60	
N-Nitrosodimethylamin	1	0	Avg	1.0355	----	----	0.9188	0.9080	0.9849	1.0126	0.8907	----	0.958	2.97	0.995	1.00	6.3	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
bis(2-Chloroethyl)ether	1	0	Avg	1.3978	1.7625	1.6996	1.6718	1.6413	1.6731	1.3006	1.0716	----	1.53	5.56	0.982	0.999	16		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Methylphenol	1	0	Avg	1.0456	0.8115	0.9255	0.8596	0.7962	0.9160	1.0641	0.9259	----	0.918	5.98	0.995	1.00	11		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachloroethane	1	0	Avg	0.4633	0.5291	0.4763	0.4687	0.4494	0.4705	0.4621	0.4161	----	0.467	6.20	0.997	1.00	6.7	0.30	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
3&4-Methylphenol	1	0	Avg	1.0948	0.8878	0.8721	0.8302	0.7850	0.9248	1.0666	0.9438	----	0.926	6.10	0.995	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Nitrobenzene-d5	1	0	Avg	0.2092	0.2063	0.2149	0.1995	0.1941	0.2172	0.1951	0.1697	----	0.201	6.22	0.994	1.00	7.6		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
2,4-Dimethylphenol	1	0	Avg	0.1905	0.1515	0.1658	0.1463	0.1409	0.1639	0.1933	0.1728	----	0.166	6.52	0.997	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Naphthalene	1	0	Avg	0.8323	1.1799	0.9714	0.9534	0.9171	0.9218	0.8551	0.6778	----	0.914	6.80	0.986	0.999	16	0.70 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobutadiene	1	0	Avg	0.1666	0.2172	0.1954	0.1900	0.1749	0.1806	0.1623	0.1473	----	0.179	6.90	0.997	1.00	12	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorocyclopenta	1	0	Avg	0.2996	----	----	0.3113	0.2750	0.2719	0.3290	0.2883	----	0.296	7.46	0.995	0.999	7.4		5.00			0.20	0.50	1.00	10.00	19.60	
2,4,5-Trichlorophenol	1	0	Avg	0.3476	0.2732	0.2336	0.2199	0.2287	0.2847	0.3149	0.2957	----	0.275	7.58	0.997	1.00	16		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Fluorobiphenyl	1	0	Qua	0.9480	1.4142	1.2992	1.3275	1.2973	1.2860	0.8647	0.6102	----	1.13	7.62	0.960	0.999	25		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Acenaphthylene	1	0	Avg	1.8300	1.8894	1.7461	1.6561	1.6885	1.8028	1.9695	1.4666	----	1.76	8.08	0.976	0.997	8.9	0.90	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Acenaphthene	1	0	Avg	1.1049	1.3372	1.2135	1.2612	1.2158	1.2388	1.1341	0.8515	----	1.17	8.23	0.977	0.998	13	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzofuran	1	0	Qua	1.5642	2.2836	1.9898	2.0661	1.9885	1.9410	1.5535	1.1793	----	1.82	8.39	0.978	0.999	20		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluorene	1	0	Avg	1.0822	1.0713	1.0818	0.9908	1.0580	1.1077	1.1300	0.8487	----	1.05	8.71	0.977	0.998	8.6	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
4,6-Dinitro-2-methylph	1	0	Qua	0.0469	----	----	0.0190	0.0176	0.0223	0.0572	0.0747	----	0.0396	8.74	0.969	0.999	60	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
1,2-Diphenylhydrazine	1	0	Qua	0.6398	0.4310	0.4407	0.4471	0.4781	0.5937	0.6364	0.5604	----	0.528	8.85	0.995	1.00	17		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobenzene	1	0	Avg	0.2286	0.2793	0.2474	0.2547	0.2483	0.2549	0.2230	0.1972	----	0.242	9.25	0.996	1.00	10	0.10	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pentachlorophenol	1	0	Qua	0.0877	----	----	0.0445	0.0397	0.0527	0.0980	0.1023	----	0.0709	9.45	0.999	1.00	40	0.05 a	5.00			0.20	0.50	1.00	10.00	19.60	
Phenanthrene	1	0	Avg	1.0183	1.1884	1.1015	1.0841	1.0638	1.1290	0.9976	0.8404	----	1.05	9.69	0.992	1.00	10	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Anthracene	1	0	Avg	0.9224	0.7558	0.7628	0.7649	0.7924	0.8867	0.8958	0.7885	----	0.821	9.74	0.995	1.00	8.3	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Carbazole	1	0	Avg	0.9161	0.6819	0.7461	0.7864	0.7828	0.9179	0.8736	0.7619	----	0.808	9.91	0.994	1.00	11	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluoranthene	1	0	Avg	1.0537	0.7510	0.8000	0.8518	0.8539	0.9739	1.0653	0.9311	----	0.910	11.01	0.995	1.00	13	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pyrene	1	0	Avg	2.1889	2.7901	2.3462	2.4332	2.2918	2.2965	2.2626	2.0226	----	2.33	11.28	0.997	0.999	9.5	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Terphenyl-d14	1	0	Qua	0.9570	1.3742	1.4282	1.5164	1.4435	1.3188	0.8927	0.7324	----	1.21	11.47	0.988	1.00	25		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Benzo[a]anthracene	1	0	Qua	1.3198	1.1062	0.8228	0.9524	0.8022	1.0192	1.4614	1.3496	----	1.10	12.70	0.998	0.999	23	0.80	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Chrysene	1	0	Avg	1.3783	1.8595	1.5592	1.5935	1.5710	1.5391	1.3840	1.2293	----	1.51	12.74	0.996	1.00	12	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[b]fluoranthene	1	0	Avg	1.8431	1.3816	1.5534	1.6297	1.4217	1.5396	1.8835	1.5747	----	1.60	13.92	0.992	0.996	11	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[k]fluoranthene	1	0	Avg	2.1143	1.6909	1.6250	1.8039	2.1026	2.4892	2.0215	1.6419	----	1.94	13.95	0.987	1.00	16	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[a]pyrene	1	0	LinF	1.7994	1.4734	1.0793	1.2438	1.2128	1.3871	1.9212	1.6479	----	1.47	14.27	0.994	0.999	20	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Indeno[1,2,3-cd]pyren	1	0	Qua	1.8277	1.4141	1.2062	1.2881	1.2668	1.4118	1.9796	1.7450	----	1.52	15.61	0.994	0.994	19	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzo[a,h]anthracen	1	0	Qua	1.5358	1.1430	1.0208	1.0520	1.0842	1.2055	1.5607	1.3586	----	1.25	15.64	0.994	0.995	17	0.40	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[g,h,i]perylene	1	0	Avg	1.6547	1.6758	1.2666	1.4044	1.3650	1.4943	1.7190	1.4756	----	1.51	15.97	0.994	0.999	11	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	

Flags	*Note:* Avg Rsd: 15.42
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM
Data File: 12M63510.D
Acq On : 08/15/22 11:52

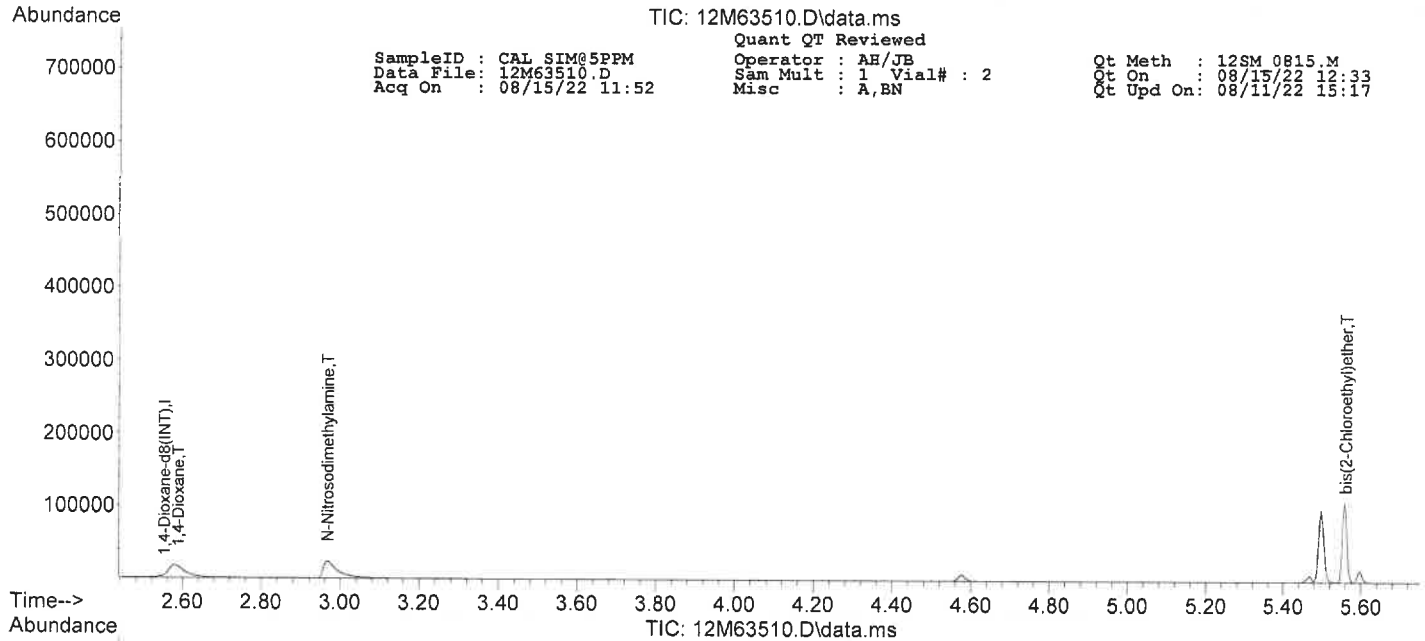
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN

Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:33
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.554	96	22615	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	30910	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	140421	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	62845	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	119371	0.40	ng	0.00
31) Chrysene-d12	12.705	240	62710m	0.40	ng	0.00
36) Perylene-d12	14.329	264	36908	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	1835980	25.98	ng	0.00
Spiked Amount 50.000			Recovery = 51.96%			
17) 2-Fluorobiphenyl	7.620	172	3723688	20.66	ng	0.00
Spiked Amount 50.000			Recovery = 41.32%			
33) Terphenyl-d14	11.470	244	3750953	23.76	ng	0.00
Spiked Amount 50.000			Recovery = 47.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.584	88	284504	5.1623	ng	98
4) N-Nitrosodimethylamine	2.970	74	400102	5.2297	ng	81
5) bis(2-Chloroethyl)ether	5.562	93	540099	4.4968	ng	90
6) 2-Methylphenol	5.981	108	403996	5.3716	ng	85
7) Hexachloroethane	6.200	201	179005	5.0319	ng	38
8) 3&4-Methylphenol	6.095	108	423030m	5.9971	ng	
11) 2,4-Dimethylphenol	6.519	107	334436	4.8822	ng	80
12) Naphthalene	6.799	128	1460930	4.3749	ng	98
13) Hexachlorobutadiene	6.902	225	292504	3.9401	ng	51
15) Hexachlorocyclopentadiene	7.463	237	235377	5.5450	ng	99
16) 2,4,5-Trichlorophenol	7.576	196	273127m	5.3304	ng	
18) Acenaphthylene	8.083	152	1437630	4.9821	ng	98
19) Acenaphthene	8.233	153	868036	4.6589	ng	76
20) Dibenzofuran	8.393	168	1228851	4.3098	ng	99
21) Fluorene	8.711	166	850165	5.0041	ng	98
23) 4,6-Dinitro-2-methylph...	8.744	198	70008	8.5006	ng	86
24) 1,2-Diphenylhydrazine	8.850	77	954787	5.8913	ng	81
25) Hexachlorobenzene	9.254	284	341118	4.9652	ng	80
26) Pentachlorophenol	9.448	266	130973	5.8668	ng	88
27) Phenanthrene	9.686	178	1519442	4.9142	ng	99
28) Anthracene	9.738	178	1376349	5.6195	ng	98
29) Carbazole	9.910	167	1367056	5.3810	ng	97
30) Fluoranthene	11.013	202	1572285	5.6857	ng	98
32) Pyrene	11.277	202	1715868	4.6028	ng	83
34) Benzo[a]anthracene	12.697	228	1034589	5.5136	ng	97
35) Chrysene	12.739	228	1080458	4.5812	ng	96
37) Benzo[b]fluoranthene	13.918	252	850329	5.2127	ng	91
38) Benzo[k]fluoranthene	13.946	252	975447m	5.4437	ng	
39) Benzo[a]pyrene	14.266	252	830181	5.0426	ng	93
40) Indeno[1,2,3-cd]pyrene	15.611	276	843233	5.3532	ng	98
41) Dibenzo[a,h]anthracene	15.634	278	708546m	5.4169	ng	
42) Benzo[g,h,i]perylene	15.971	276	763398	5.0714	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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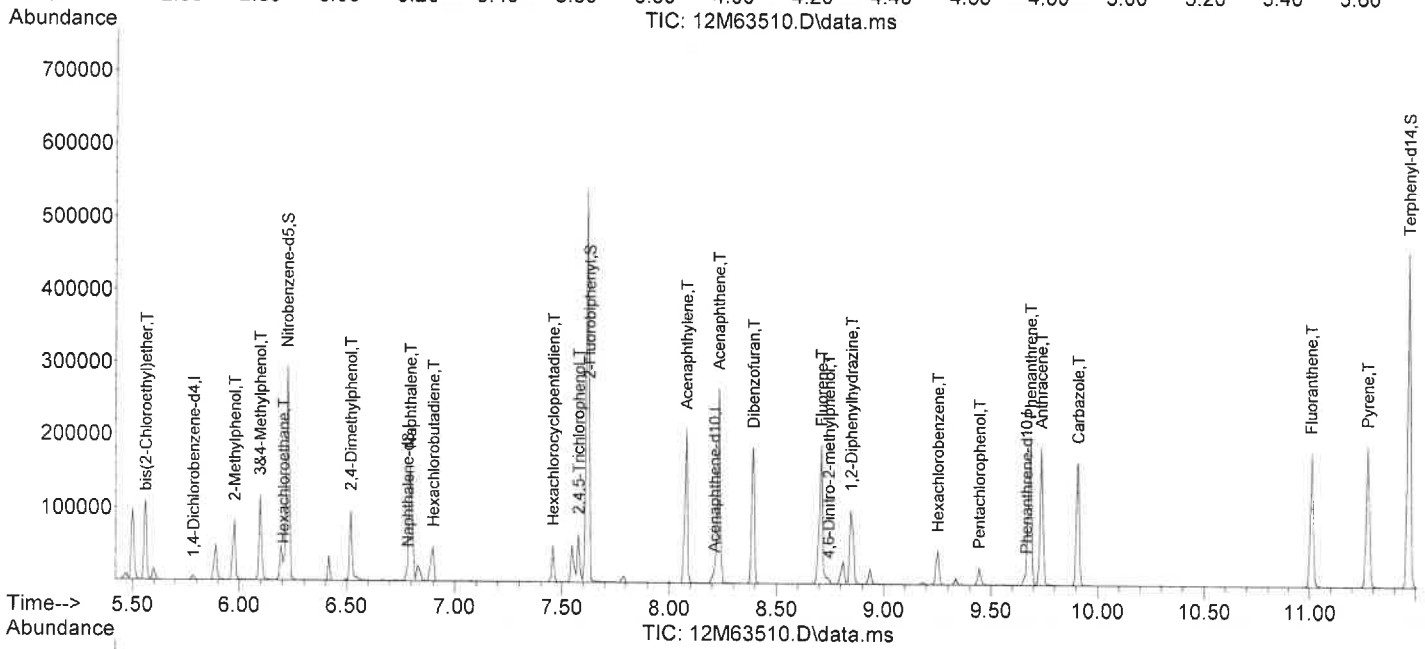
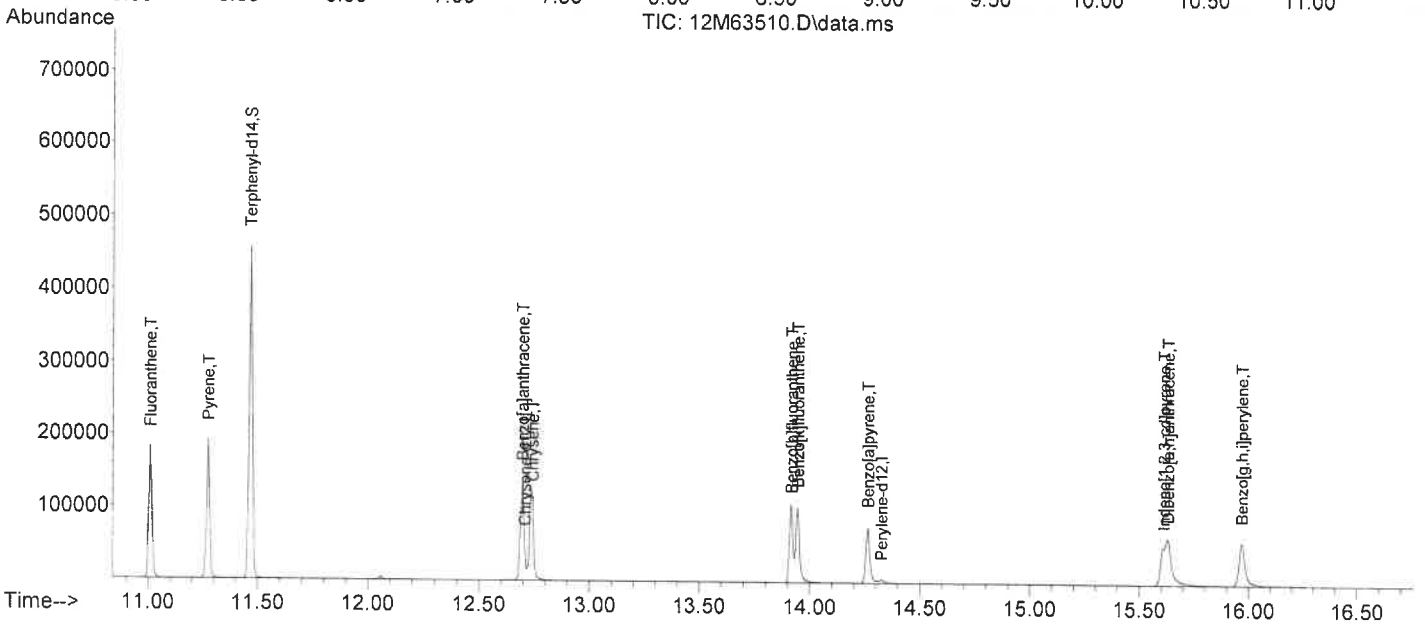
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M63510.D
Acq On : 08/15/22 11:52
Operator : AE/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:33
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63510.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63510.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

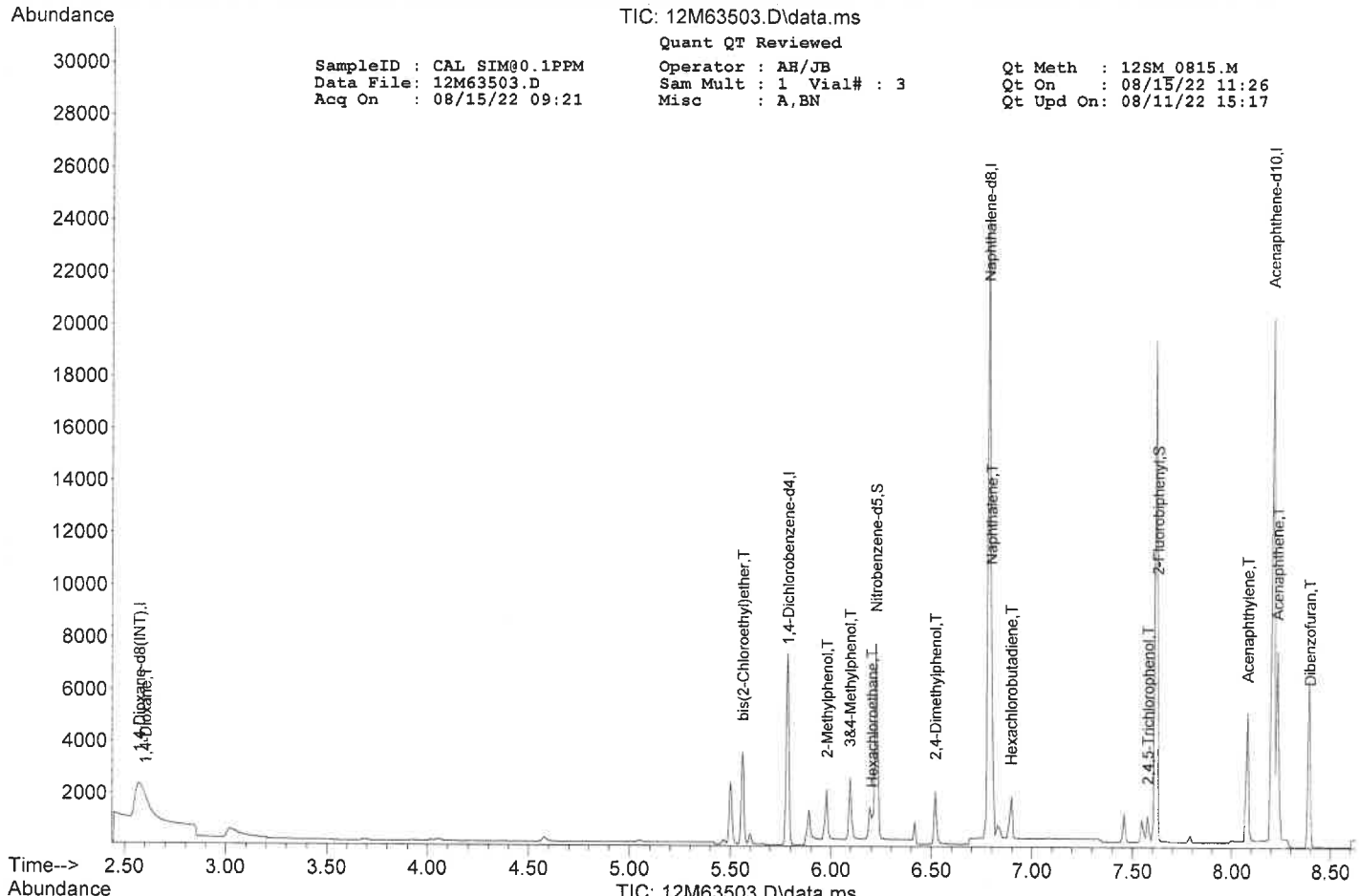
Quantitation Report (QT Reviewed)

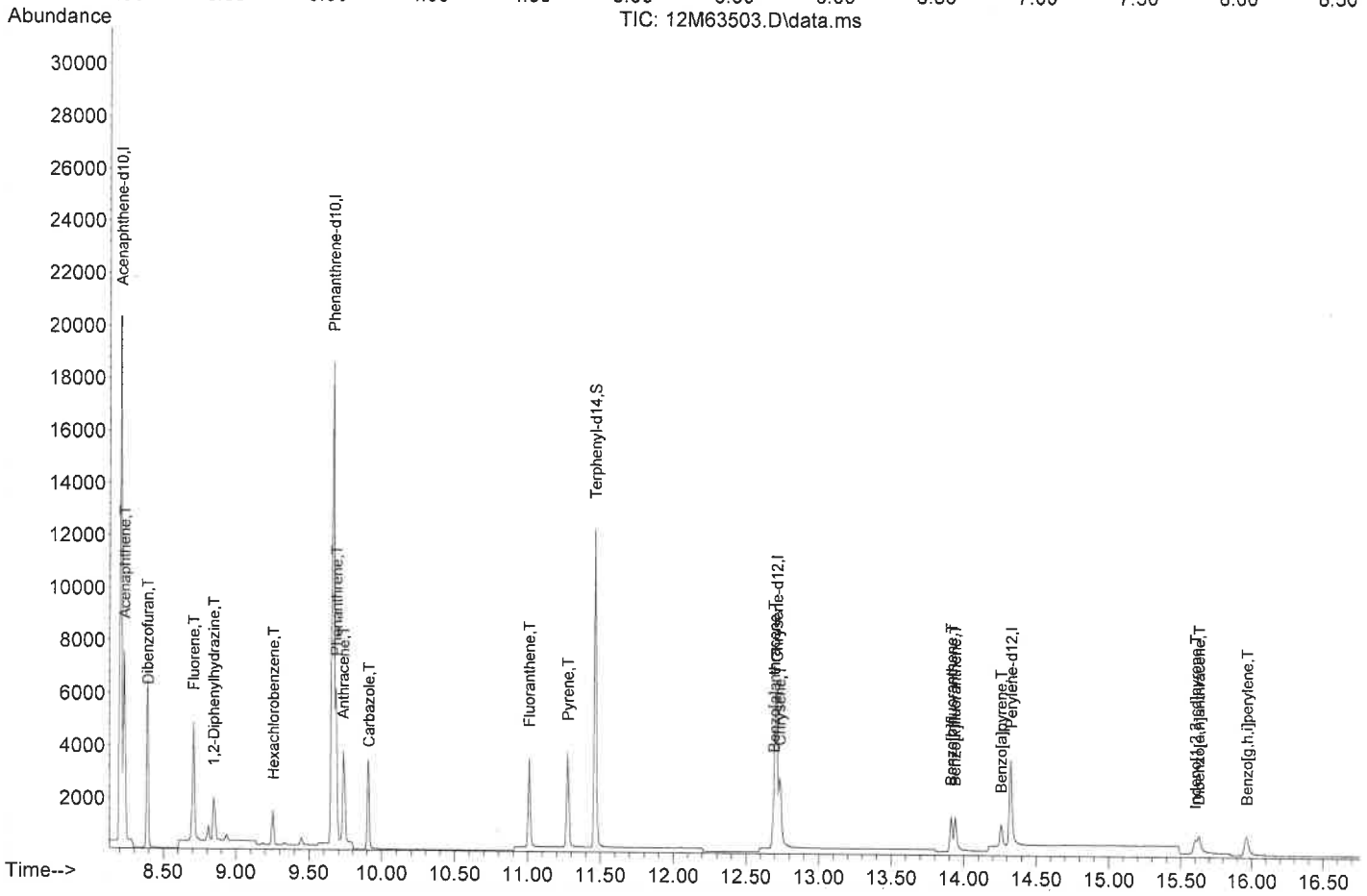
SampleID : CAL SIM@0.1PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63503.D Sam Mult : 1 Vial# : 3 Qt On : 08/15/22 11:26
Acq On : 08/15/22 09:21 Misc : A,BN Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\Data\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.571	96	28527	0.40	ng	0.03
3) 1,4-Dichlorobenzene-d4	5.786	152	43663	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	187783	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	78733	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	151854	0.40	ng	0.00
31) Chrysene-d12	12.714	240	56551m	0.40	ng	0.00
36) Perylene-d12	14.326	264	33338m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	50457	0.53	ng	0.00
Spiked Amount 50.000			Recovery =	1.06%		
17) 2-Fluorobiphenyl	7.620	172	127865	0.57	ng	0.00
Spiked Amount 50.000			Recovery =	1.14%		
33) Terphenyl-d14	11.470	244	100959	0.66	ng	0.00
Spiked Amount 50.000			Recovery =	1.32%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.602	88	8665m	0.1246	ng	
5) bis(2-Chloroethyl)ether	5.563	93	18553	0.1094	ng	98
6) 2-Methylphenol	5.981	108	10103	0.0951	ng	92
7) Hexachloroethane	6.202	201	5200	0.1035	ng	45
8) 3&4-Methylphenol	6.095	108	9520m	0.0955	ng	
11) 2,4-Dimethylphenol	6.518	107	7786m	0.0850	ng	
12) Naphthalene	6.799	128	45607	0.1021	ng	97
13) Hexachlorobutadiene	6.902	225	9176	0.0924	ng	53
16) 2,4,5-Trichlorophenol	7.579	196	4599	0.0716	ng	98
18) Acenaphthylene	8.083	152	34370	0.0951	ng	95
19) Acenaphthene	8.233	153	23887	0.1023	ng	68
20) Dibenzofuran	8.394	168	39167	0.1096	ng	88
21) Fluorene	8.711	166	21295	0.1000	ng	95
24) 1,2-Diphenylhydrazine	8.850	77	16733	0.0812	ng	84
25) Hexachlorobenzene	9.255	284	9393	0.1075	ng	70
27) Phenanthrene	9.686	178	41818	0.1063	ng	96
28) Anthracene	9.735	178	28959m	0.0929	ng	
29) Carbazole	9.910	167	28327	0.0876	ng	92
30) Fluoranthene	11.013	202	30372	0.0863	ng	97
32) Pyrene	11.277	202	33171	0.0987	ng	81
34) Benzo[a]anthracene	12.695	228	11633m	0.0687	ng	
35) Chrysene	12.732	228	22045m	0.1037	ng	
37) Benzo[b]fluoranthene	13.913	252	12947m	0.0879	ng	
38) Benzo[k]fluoranthene	13.940	252	13544m	0.0837	ng	
39) Benzo[a]pyrene	14.257	252	8995m	0.0605	ng	
40) Indeno[1,2,3-cd]pyrene	15.600	276	10053m	0.0707	ng	
41) Dibenzo[a,h]anthracene	15.627	278	8508m	0.0720	ng	
42) Benzo[g,h,i]perylene	15.964	276	10557m	0.0776	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63503.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@0.1PPM
Data File: 12M63503.D
Acq On : 08/15/22 09:21
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:26
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M63503.D\data.ms
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

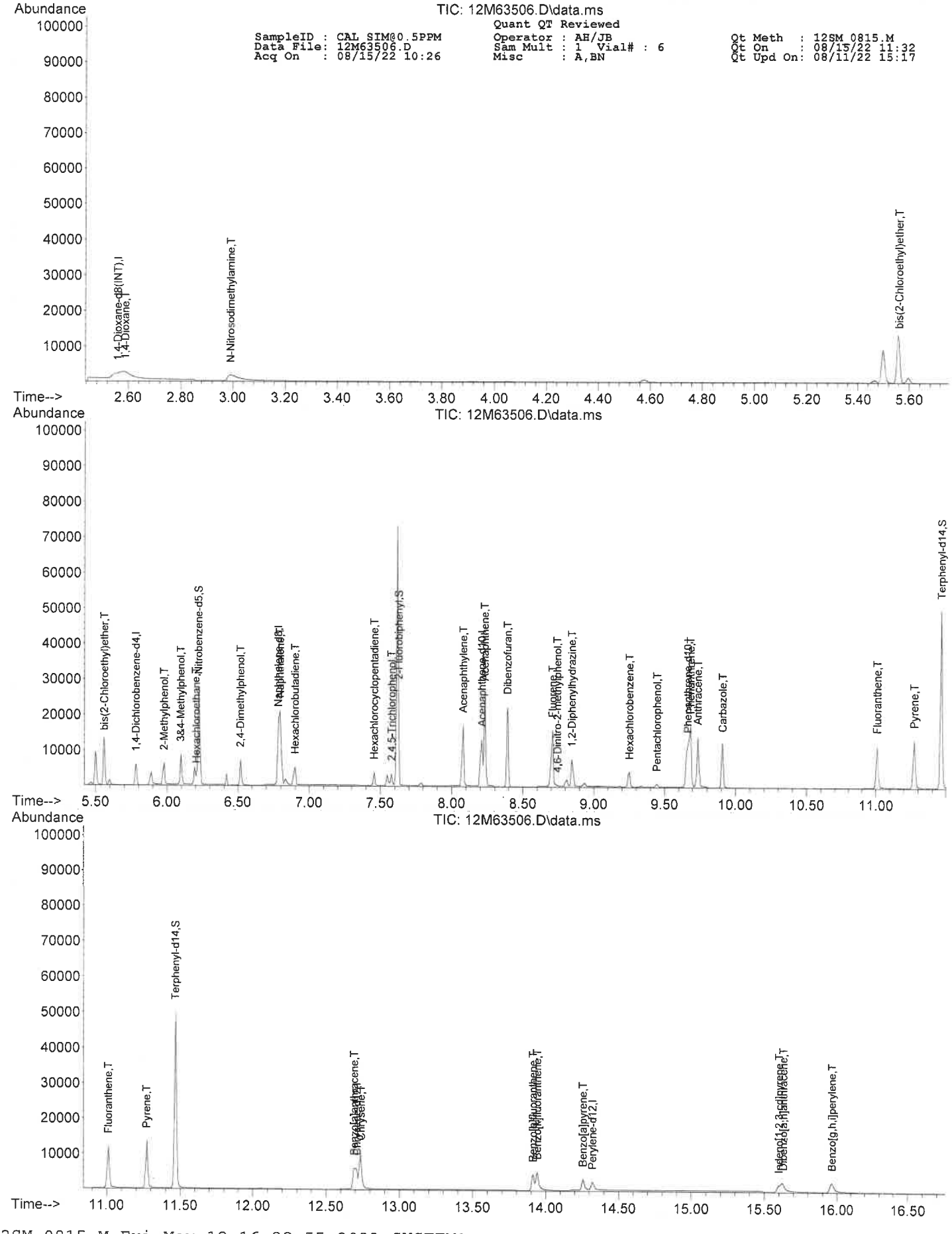
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.5PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63506.D Sam Mult : 1 Vial# : 6 Qt On : 08/15/22 11:32
Acq On : 08/15/22 10:26 Misc : A,BN Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.557	96	21912	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	32533	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	141722	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	56659	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	107051	0.40	ng	0.00
31) Chrysene-d12	12.708	240	43104m	0.40	ng	0.00
36) Perylene-d12	14.319	264	23536m	0.40	ng	-0.01
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	171978	2.41	ng	0.00
Spiked Amount 50.000			Recovery =	4.82%		
17) 2-Fluorobiphenyl	7.620	172	459413	2.83	ng	0.00
Spiked Amount 50.000			Recovery =	5.66%		
33) Terphenyl-d14	11.468	244	388894	3.35	ng	0.00
Spiked Amount 50.000			Recovery =	6.70%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	28678m	0.5370	ng	
4) N-Nitrosodimethylamine	2.990	74	36925m	0.4586	ng	
5) bis(2-Chloroethyl)ether	5.562	93	66749	0.5280	ng	91
6) 2-Methylphenol	5.981	108	32382	0.4091	ng	86
7) Hexachloroethane	6.199	201	18278	0.4882	ng	39
8) 3&4-Methylphenol	6.095	108	31923m	0.4300	ng	
11) 2,4-Dimethylphenol	6.519	107	24971	0.3612	ng	79
12) Naphthalene	6.798	128	162474	0.4821	ng	98
13) Hexachlorobutadiene	6.902	225	30996	0.4137	ng	51
15) Hexachlorocyclopentadiene	7.462	237	19477	0.5089	ng	95
16) 2,4,5-Trichlorophenol	7.579	196	16202	0.3507	ng	97
18) Acenaphthylene	8.083	152	119587	0.4597	ng	96
19) Acenaphthene	8.233	153	86108	0.5126	ng	72
20) Dibenzofuran	8.393	168	140834	0.5479	ng	97
21) Fluorene	8.711	166	74934	0.4892	ng	98
23) 4,6-Dinitro-2-methylph...	8.740	198	2362	0.3199	ng	88
24) 1,2-Diphenylhydrazine	8.849	77	63984	0.4402	ng	87
25) Hexachlorobenzene	9.254	284	33237	0.5395	ng	93
26) Pentachlorophenol	9.448	266	5315	0.2897	ng	93
27) Phenanthrene	9.685	178	142353	0.5134	ng	99
28) Anthracene	9.737	178	106036	0.4828	ng	97
29) Carbazole	9.909	167	104749	0.4598	ng	95
30) Fluoranthene	11.013	202	114269	0.4608	ng	100
32) Pyrene	11.276	202	123487	0.4819	ng	86
34) Benzo[a]anthracene	12.690	228	43226m	0.3351	ng	
35) Chrysene	12.736	228	84651m	0.5222	ng	
37) Benzo[b]fluoranthene	13.914	252	41827m	0.4021	ng	
38) Benzo[k]fluoranthene	13.940	252	61859m	0.5414	ng	
39) Benzo[a]pyrene	14.260	252	35682	0.3399	ng	98
40) Indeno[1,2,3-cd]pyrene	15.600	276	37270m	0.3710	ng	
41) Dibenzo[a,h]anthracene	15.627	278	31899m	0.3824	ng	
42) Benzo[g,h,i]perylene	15.965	276	40160	0.4184	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL SIM@0.5PPM
Data File: 12M63506.D
Acq On : 08/15/22 10:26
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:32
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->
Abundance
TIC: 12M63506.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->
Abundance
TIC: 12M63506.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

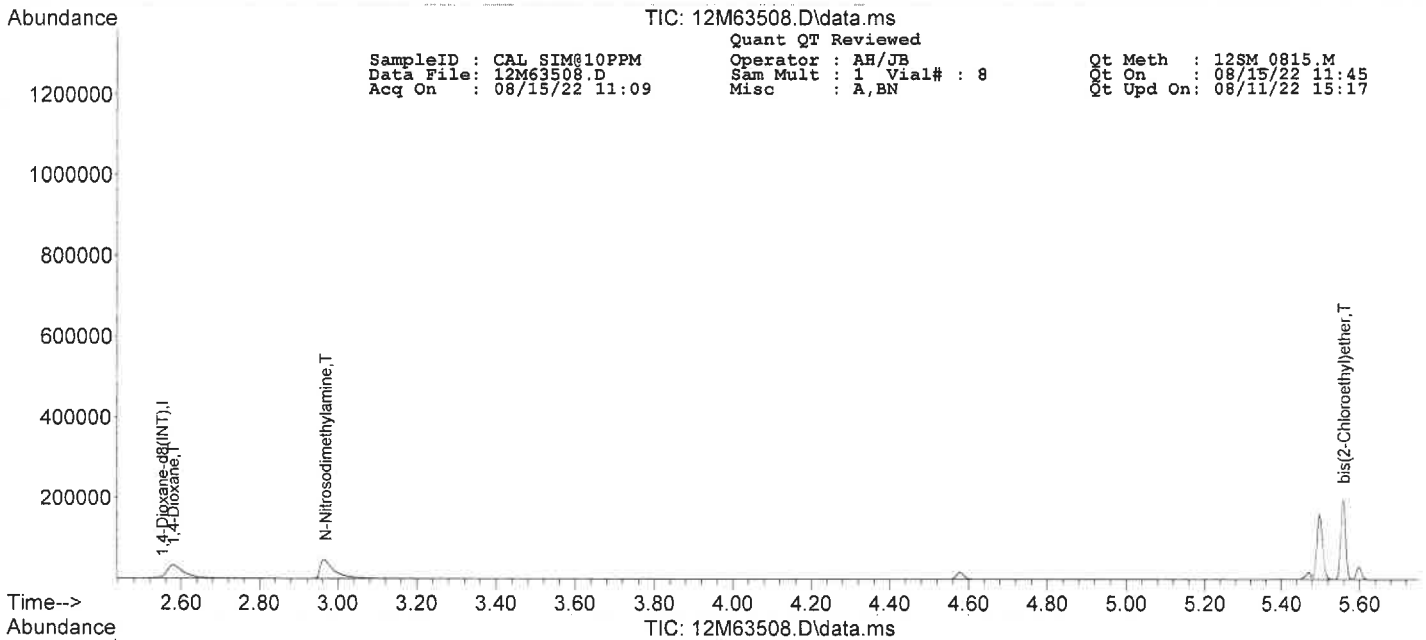
Quantitation Report (QT Reviewed)

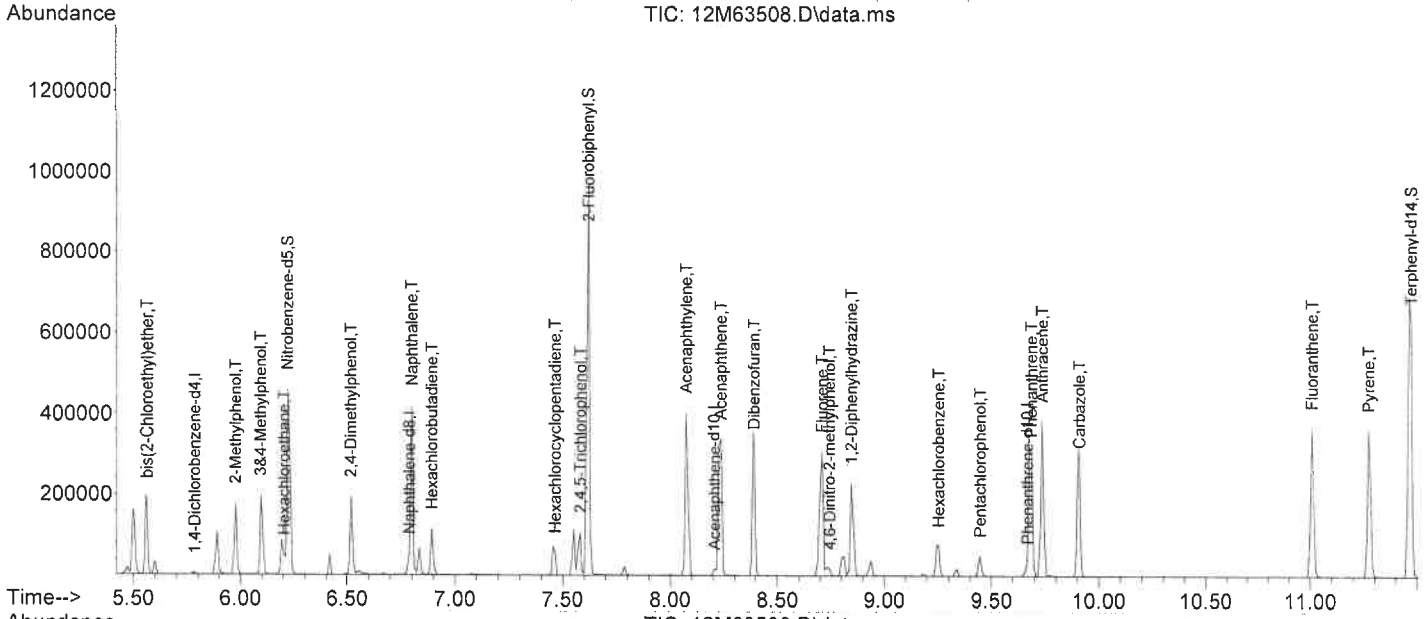
SampleID : CAL SIM@10PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63508.D Sam Mult : 1 Vial# : 8 Qt On : 08/15/22 11:45
Acq On : 08/15/22 11:09 Misc : A,BN Qt Upd On: 08/11/22 15:17

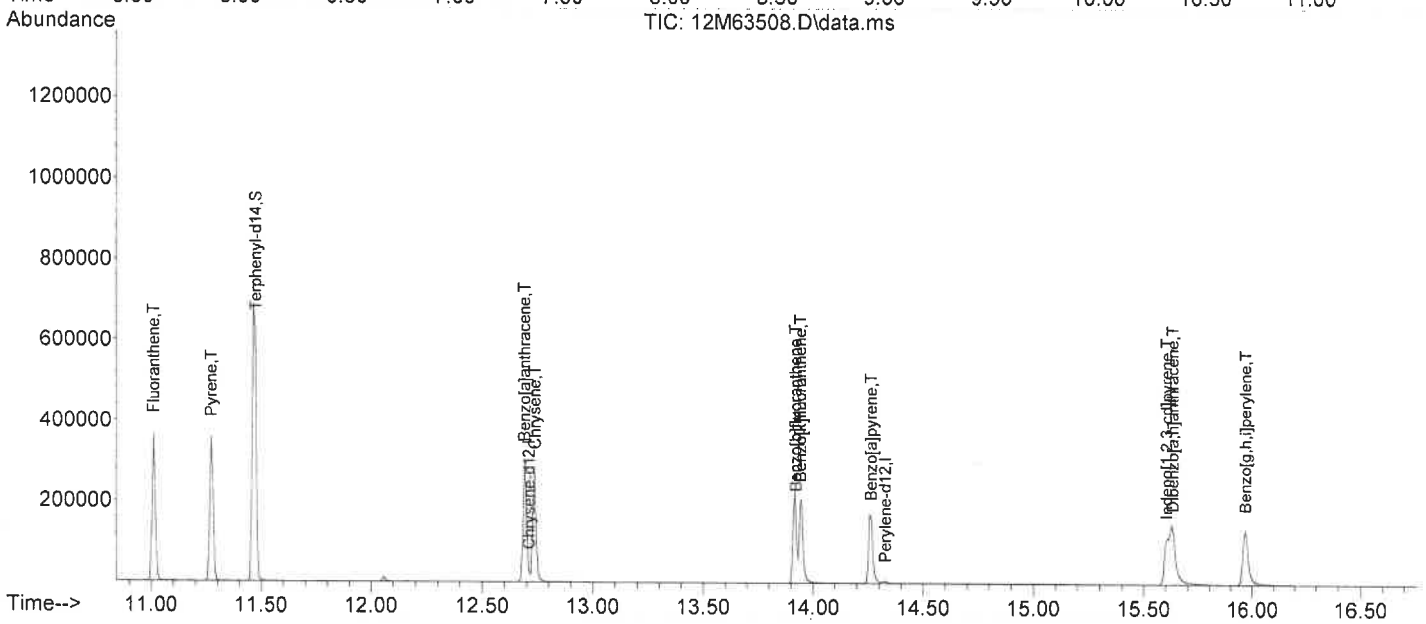
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.552	96	22624m	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	30081	0.40	ng	0.00
9) Naphthalene-d8	6.791	136	137732	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	58102	0.40	ng	0.00
22) Phenanthrene-d10	9.663	188	118968	0.40	ng	0.00
31) Chrysene-d12	12.710	240	59062m	0.40	ng	0.00
36) Perylene-d12	14.329	264	37984	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	3358927	48.46	ng	0.00
Spiked Amount 50.000			Recovery = 96.92%			
17) 2-Fluorobiphenyl	7.622	172	6280477	37.68	ng	0.00
Spiked Amount 50.000			Recovery = 75.36%			
33) Terphenyl-d14	11.471	244	6591097	48.35	ng	0.00
Spiked Amount 50.000			Recovery = 96.70%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.583	88	545372	9.8917	ng	92
4) N-Nitrosodimethylamine	2.967	74	761579	10.2285	ng	80
5) bis(2-Chloroethyl)ether	5.562	93	978117	8.3679	ng	94
6) 2-Methylphenol	5.981	108	800304	10.9339	ng	88
7) Hexachloroethane	6.201	201	347528	10.0381	ng	42
8) 3&4-Methylphenol	6.095	108	802137m	11.6845	ng	
11) 2,4-Dimethylphenol	6.519	107	665705	9.9078	ng	83
12) Naphthalene	6.802	128	2944400	8.9894	ng	89
13) Hexachlorobutadiene	6.896	225	559152	7.6789	ng	83
15) Hexachlorocyclopentadiene	7.462	237	477996	12.1797	ng	72
16) 2,4,5-Trichlorophenol	7.581	196	457515m	9.6578	ng	
18) Acenaphthylene	8.080	152	2860880	10.7237	ng	89
19) Acenaphthene	8.233	153	1647433	9.5637	ng	97
20) Dibenzofuran	8.393	168	2256622	8.5603	ng	94
21) Fluorene	8.712	166	1641416	10.4500	ng	93
23) 4,6-Dinitro-2-methylph...	8.746	198	170126	20.7273	ng	82
24) 1,2-Diphenylhydrazine	8.851	77	1892893	11.7191	ng	89
25) Hexachlorobenzene	9.254	284	663270	9.6870	ng	97
26) Pentachlorophenol	9.449	266	291687	12.0047	ng	99
27) Phenanthrene	9.683	178	2967158	9.6289	ng	97
28) Anthracene	9.739	178	2664491	10.9156	ng	98
29) Carbazole	9.909	167	2598452	10.2626	ng	94
30) Fluoranthene	11.012	202	3168575	11.4970	ng	96
32) Pyrene	11.276	202	3340958	9.5156	ng	77
34) Benzo[a]anthracene	12.695	228	2157953	12.2106	ng	99
35) Chrysene	12.740	228	2043660	9.2005	ng	98
37) Benzo[b]fluoranthene	13.918	252	1788625	10.6542	ng	89
38) Benzo[k]fluoranthene	13.942	252	1919648m	10.4098	ng	
39) Benzo[a]pyrene	14.264	252	1824410	10.7679	ng	88
40) Indeno[1,2,3-cd]pyrene	15.609	276	1879881	11.5964	ng	95
41) Dibenzo[a,h]anthracene	15.634	278	1482088m	11.0098	ng	
42) Benzo[g,h,i]perylene	15.971	276	1632373	10.5371	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63508.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@10PPM
Data File: 12M63508.D
Acq On : 08/15/22 11:09
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:45
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63508.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63508.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene-d12,I
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.02PPM
Data File: 12M63511.D
Acq On : 08/15/22 12:14

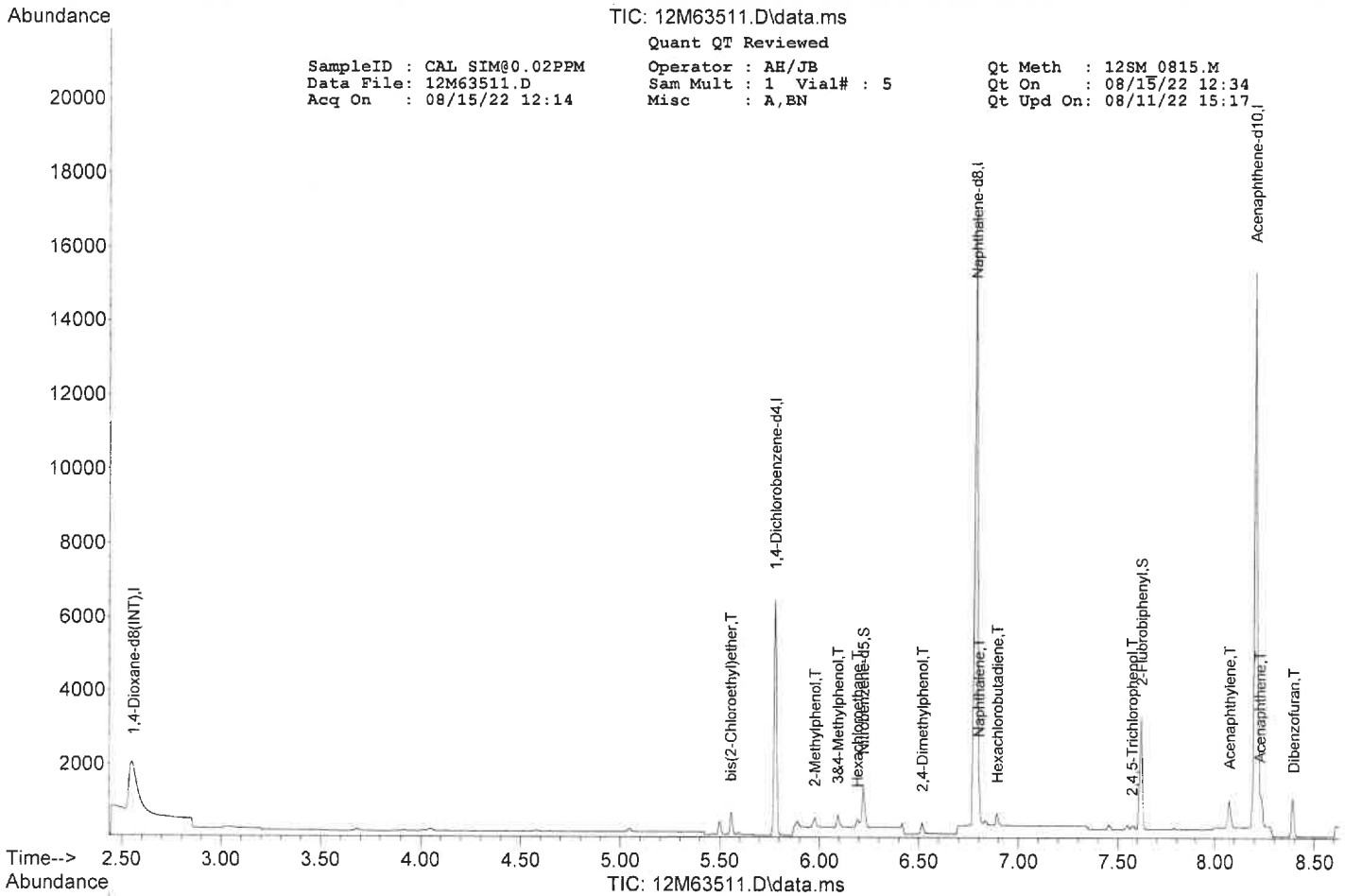
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN

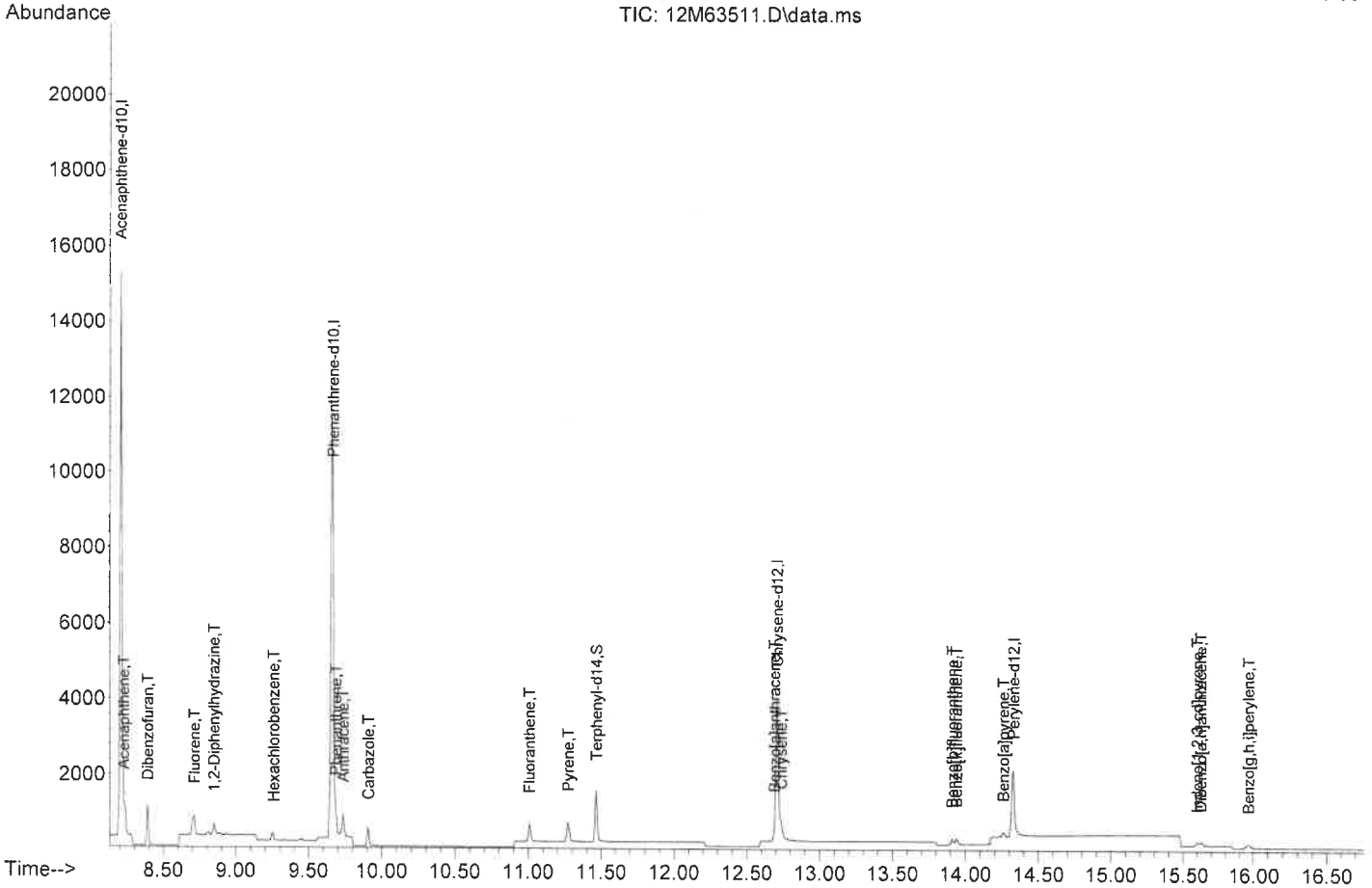
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:34
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.556	96	22735	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	35102	0.40	ng	0.00
9) Naphthalene-d8	6.791	136	144080	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	57571	0.40	ng	0.00
22) Phenanthrene-d10	9.662	188	116007	0.40	ng	0.00
31) Chrysene-d12	12.710	240	33801m	0.40	ng	0.00
36) Perylene-d12	14.328	264	19336m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	7433	0.10	ng	0.00
Spiked Amount 50.000			Recovery = 0.20%			
17) 2-Fluorobiphenyl	7.622	172	20355	0.12	ng	0.00
Spiked Amount 50.000			Recovery = 0.24%			
33) Terphenyl-d14	11.468	244	11613	0.13	ng	0.00
Spiked Amount 50.000			Recovery = 0.26%			
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	5.557	93	3093m	0.0227	ng	
6) 2-Methylphenol	5.981	108	1424	0.0167	ng	90
7) Hexachloroethane	6.193	201	929m	0.0230	ng	
8) 3&4-Methylphenol	6.095	108	1558m	0.0195	ng	
11) 2,4-Dimethylphenol	6.519	107	1092	0.0155	ng	83
12) Naphthalene	6.799	128	8500m	0.0248	ng	
13) Hexachlorobutadiene	6.896	225	1565	0.0205	ng	84
16) 2,4,5-Trichlorophenol	7.571	196	786m	0.0168	ng	
18) Acenaphthylene	8.075	152	5439m	0.0206	ng	
19) Acenaphthene	8.226	153	3849m	0.0226	ng	
20) Dibenzofuran	8.393	168	6574	0.0252	ng	92
21) Fluorene	8.710	166	3084m	0.0198	ng	
24) 1,2-Diphenylhydrazine	8.850	77	2500	0.0159	ng	97
25) Hexachlorobenzene	9.254	284	1620	0.0243	ng	98
27) Phenanthrene	9.682	178	6893	0.0229	ng	99
28) Anthracene	9.739	178	4384	0.0184	ng	99
29) Carbazole	9.909	167	3955	0.0160	ng	94
30) Fluoranthene	11.012	202	4357	0.0162	ng	96
32) Pyrene	11.275	202	4715	0.0235	ng	83
34) Benzo[a]anthracene	12.692	228	1870m	0.0185	ng	
35) Chrysene	12.737	228	3143m	0.0247	ng	
37) Benzo[b]fluoranthene	13.915	252	1336m	0.0156	ng	
38) Benzo[k]fluoranthene	13.942	252	1635m	0.0174	ng	
39) Benzo[a]pyrene	14.258	252	1425m	0.0165	ng	
40) Indeno[1,2,3-cd]pyrene	15.601	276	1367m	0.0166	ng	
41) Dibenzo[a,h]anthracene	15.628	278	1105m	0.0161	ng	
42) Benzo[g,h,i]perylene	15.964	276	1620m	0.0205	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63511.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@0.02PPM
Data File: 12M63511.D
Acq On : 08/15/22 12:14
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:34
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M63511.D\data.ms
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

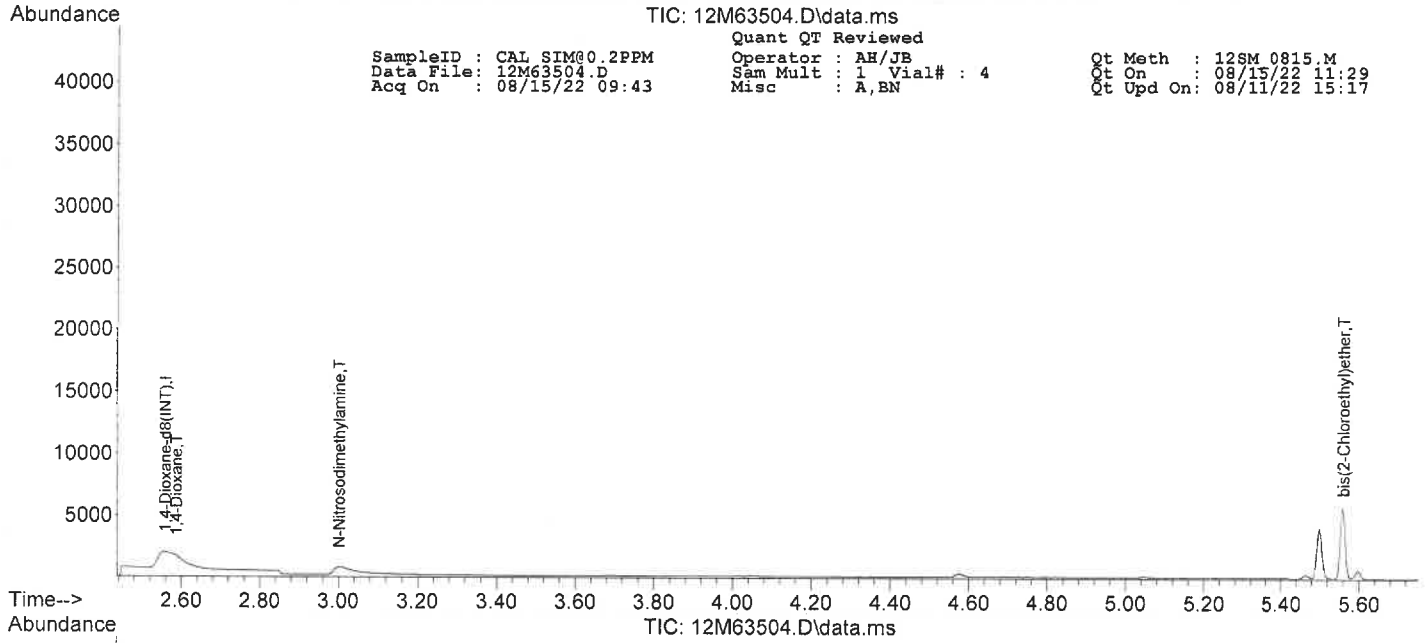
Quantitation Report (QT Reviewed)

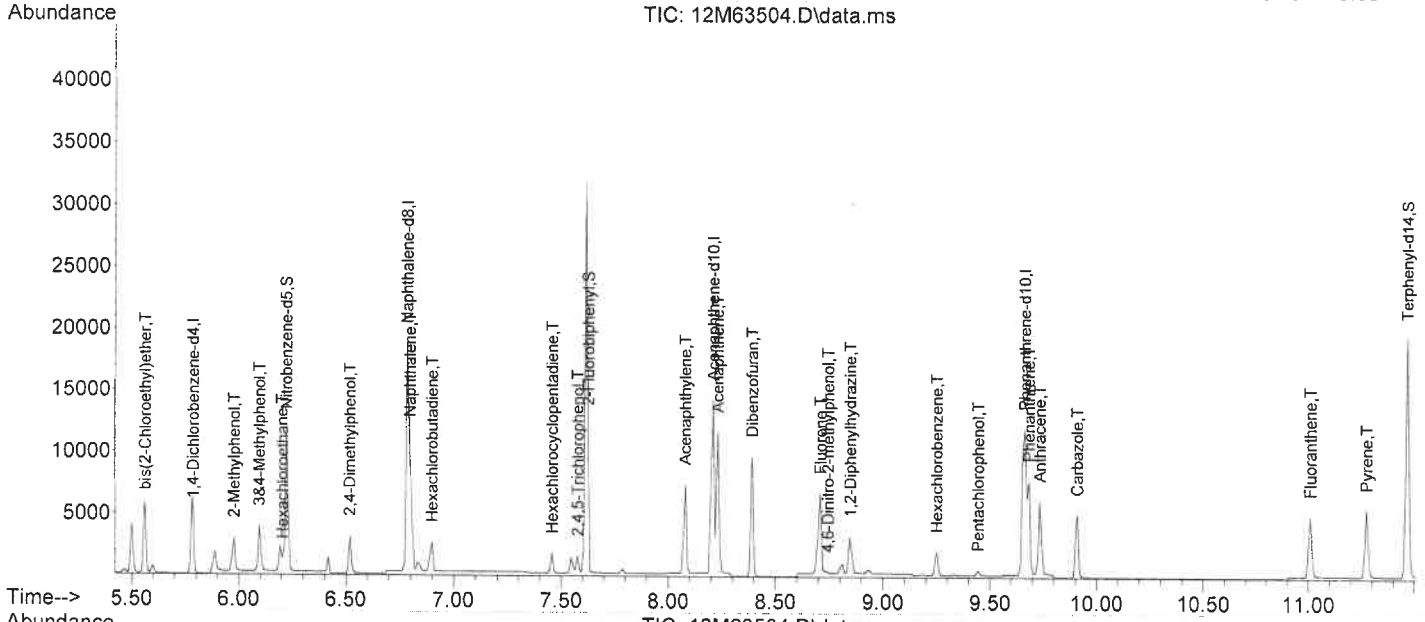
SampleID : CAL SIM@0.2PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63504.D Sam Mult : 1 Vial# : 4 Qt On : 08/15/22 11:29
Acq On : 08/15/22 09:43 Misc : A,BN Qt Upd On: 08/11/22 15:17

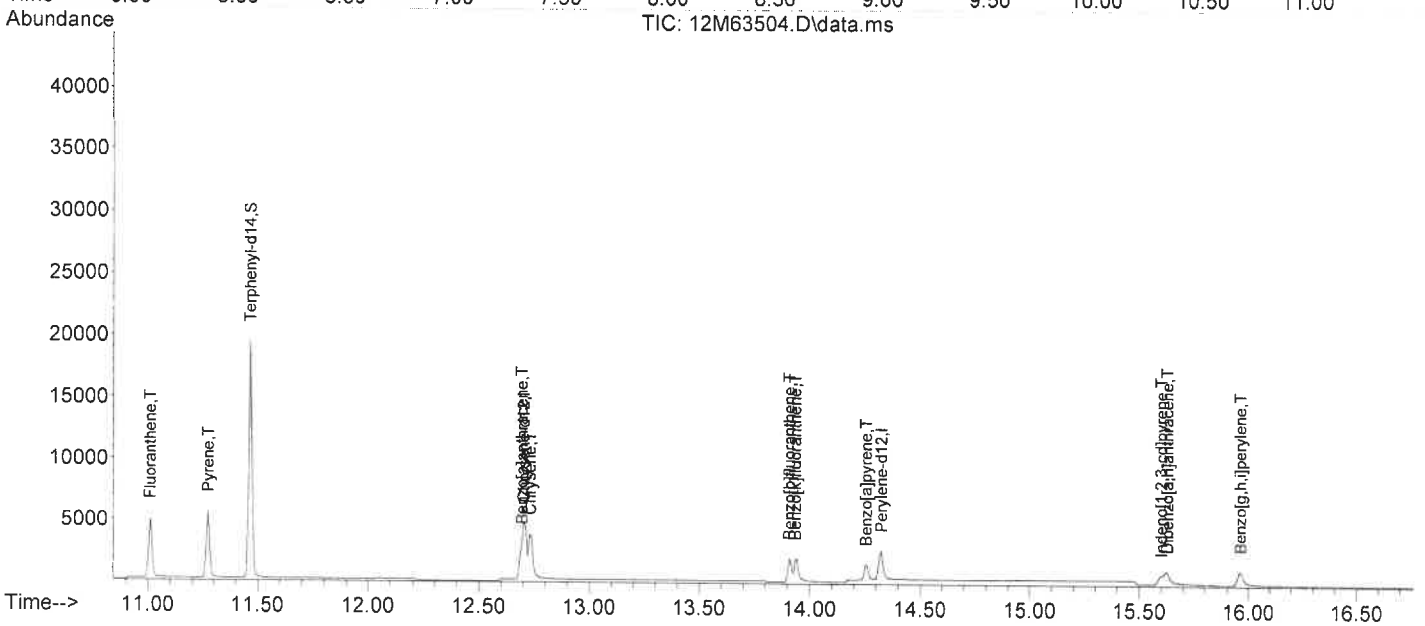
Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.558	96	22395	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	34068	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	145628	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	60159	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	113568	0.40	ng	0.00
31) Chrysene-d12	12.703	240	41332m	0.40	ng	0.00
36) Perylene-d12	14.325	264	23108	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	72641	0.99	ng	0.00
Spiked Amount 50.000			Recovery =	1.98%		
17) 2-Fluorobiphenyl	7.620	172	199661	1.16	ng	0.00
Spiked Amount 50.000			Recovery =	2.32%		
33) Terphenyl-d14	11.468	244	156698	1.40	ng	0.00
Spiked Amount 50.000			Recovery =	2.80%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	13471m	0.2468	ng	
4) N-Nitrosodimethylamine	3.001	74	15652m	0.1856	ng	
5) bis(2-Chloroethyl)ether	5.562	93	28478	0.2151	ng	92
6) 2-Methylphenol	5.981	108	14644	0.1767	ng	88
7) Hexachloroethane	6.200	201	7985	0.2037	ng	38
8) 3&4-Methylphenol	6.095	108	14143m	0.1819	ng	
11) 2,4-Dimethylphenol	6.519	107	10655	0.1500	ng	83
12) Naphthalene	6.798	128	69427	0.2005	ng	97
13) Hexachlorobutadiene	6.902	225	13838	0.1797	ng	53
15) Hexachlorocyclopentadiene	7.462	237	9365	0.2305	ng	97
16) 2,4,5-Trichlorophenol	7.579	196	6617	0.1349	ng	100
18) Acenaphthylene	8.083	152	49815	0.1803	ng	96
19) Acenaphthene	8.233	153	37939	0.2127	ng	71
20) Dibenzofuran	8.393	168	62148	0.2277	ng	97
21) Fluorene	8.708	166	29803m	0.1833	ng	
23) 4,6-Dinitro-2-methylph...	8.742	198	1079m	0.1378	ng	
24) 1,2-Diphenylhydrazine	8.848	77	25389	0.1647	ng	89
25) Hexachlorobenzene	9.254	284	14468	0.2213	ng	88
26) Pentachlorophenol	9.445	266	2532m	0.1304	ng	
27) Phenanthrene	9.685	178	61562	0.2093	ng	98
28) Anthracene	9.735	178	43436m	0.1864	ng	
29) Carbazole	9.910	167	44655	0.1848	ng	99
30) Fluoranthene	11.013	202	48371	0.1839	ng	99
32) Pyrene	11.276	202	50285	0.2047	ng	85
34) Benzo[a]anthracene	12.693	228	19683m	0.1592	ng	
35) Chrysene	12.730	228	32932m	0.2119	ng	
37) Benzo[b]fluoranthene	13.911	252	18830m	0.1844	ng	
38) Benzo[k]fluoranthene	13.938	252	20842m	0.1858	ng	
39) Benzo[a]pyrene	14.255	252	14371m	0.1394	ng	
40) Indeno[1,2,3-cd]pyrene	15.598	276	14883m	0.1509	ng	
41) Dibenzo[a,h]anthracene	15.625	278	12155m	0.1484	ng	
42) Benzo[g,h,i]perylene	15.962	276	16227m	0.1722	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63504.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@0.2PPM
Data File: 12M63504.D
Acq On : 08/15/22 09:43
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:29
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63504.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63504.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

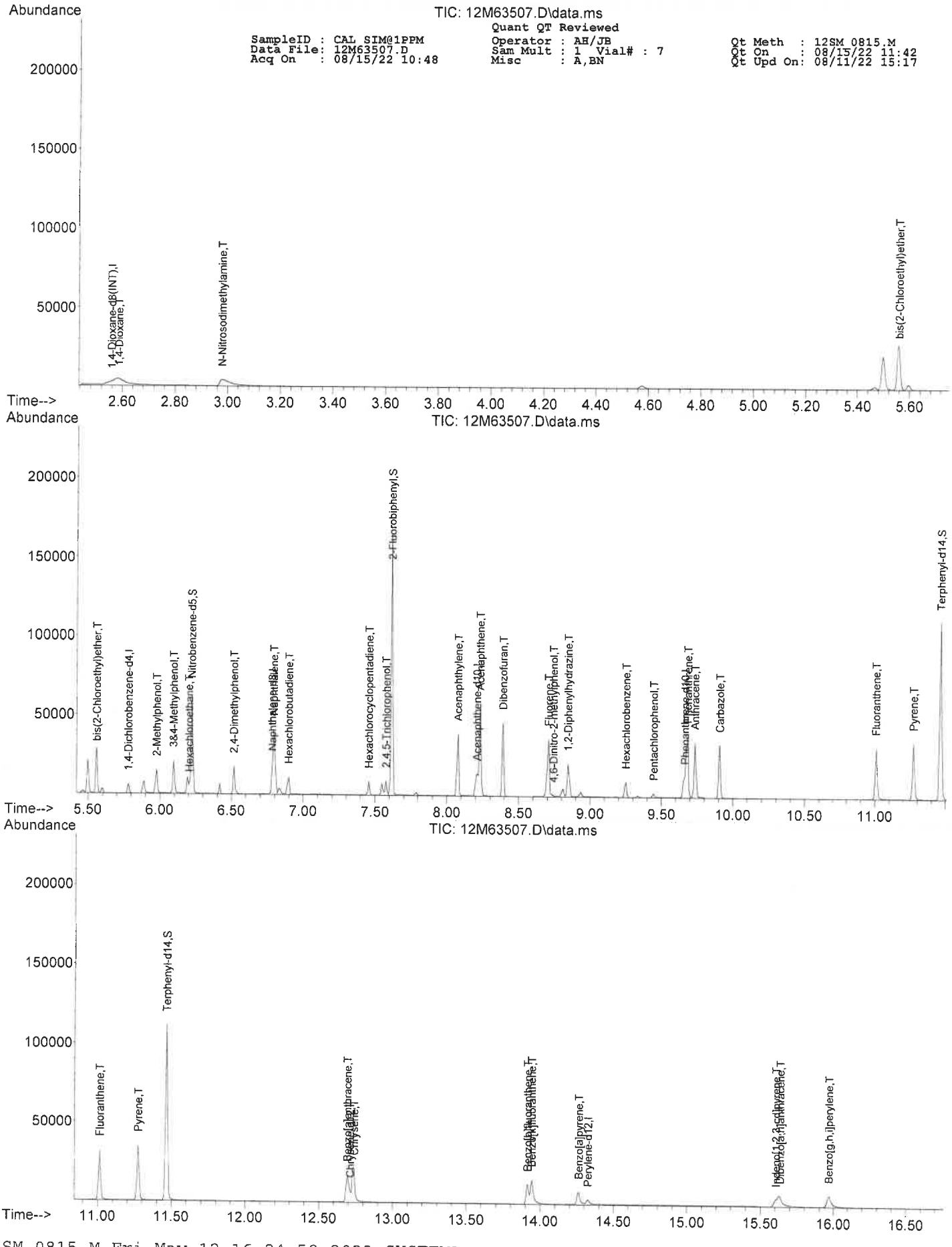
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@1PPM
Data File: 12M63507.D
Acq On : 08/15/22 10:48
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:42
Qt Upd On: 08/11/22 15:17

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.556	96	23130	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.784	152	33690	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	147512	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	62101	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	115760	0.40	ng	0.00
31) Chrysene-d12	12.712	240	54007m	0.40	ng	0.00
36) Perylene-d12	14.324	264	29400m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	400613	5.40	ng	0.00
Spiked Amount 50.000			Recovery = 10.80%			
17) 2-Fluorobiphenyl	7.619	172	998273	5.60	ng	0.00
Spiked Amount 50.000			Recovery = 11.20%			
33) Terphenyl-d14	11.468	244	890316	6.18	ng	0.00
Spiked Amount 50.000			Recovery = 12.36%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.588	88	65218m	1.1570	ng	
4) N-Nitrosodimethylamine	2.979	74	82961m	0.9949	ng	
5) bis(2-Chloroethyl)ether	5.561	93	140924	1.0765	ng	89
6) 2-Methylphenol	5.981	108	77150	0.9411	ng	87
7) Hexachloroethane	6.200	201	39634	1.0222	ng	39
8) 3&4-Methylphenol	6.095	108	77897m	1.0132	ng	
11) 2,4-Dimethylphenol	6.519	107	60463	0.8402	ng	81
12) Naphthalene	6.798	128	339962	0.9691	ng	97
13) Hexachlorobutadiene	6.902	225	66607	0.8541	ng	52
15) Hexachlorocyclopentadiene	7.462	237	42225	1.0067	ng	95
16) 2,4,5-Trichlorophenol	7.579	196	44201	0.8730	ng	98
18) Acenaphthylene	8.083	152	279891	0.9816	ng	97
19) Acenaphthene	8.233	153	192327	1.0446	ng	75
20) Dibenzofuran	8.393	168	301354	1.0696	ng	96
21) Fluorene	8.710	166	171975	1.0244	ng	98
23) 4,6-Dinitro-2-methylph...	8.742	198	6463	0.8092	ng	84
24) 1,2-Diphenylhydrazine	8.848	77	171842	1.0934	ng	87
25) Hexachlorobenzene	9.254	284	73775	1.1073	ng	85
26) Pentachlorophenol	9.445	266	15274m	0.7640	ng	
27) Phenanthrene	9.684	178	326747	1.0897	ng	99
28) Anthracene	9.737	178	256614	1.0804	ng	96
29) Carbazole	9.909	167	265660	1.0783	ng	95
30) Fluoranthene	11.013	202	281851	1.0510	ng	100
32) Pyrene	11.276	202	310077	0.9658	ng	83
34) Benzo[a]anthracene	12.694	228	137613m	0.8516	ng	
35) Chrysene	12.739	228	207812m	1.0231	ng	
37) Benzo[b]fluoranthene	13.917	252	113161	0.8709	ng	94
38) Benzo[k]fluoranthene	13.946	252	182957	1.2818	ng	98
39) Benzo[a]pyrene	14.264	252	101956	0.7775	ng	95
40) Indeno[1,2,3-cd]pyrene	15.605	276	103772m	0.8270	ng	
41) Dibenzo[a,h]anthracene	15.632	278	88610m	0.8504	ng	
42) Benzo[g,h,i]perylene	15.969	276	109829	0.9160	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M63507.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@1PPM
Data File: 12M63507.D
Acq On : 08/15/22 10:48
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 11:42
Qt Upd On: 08/11/22 15:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->
TIC: 12M63507.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->
TIC: 12M63507.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

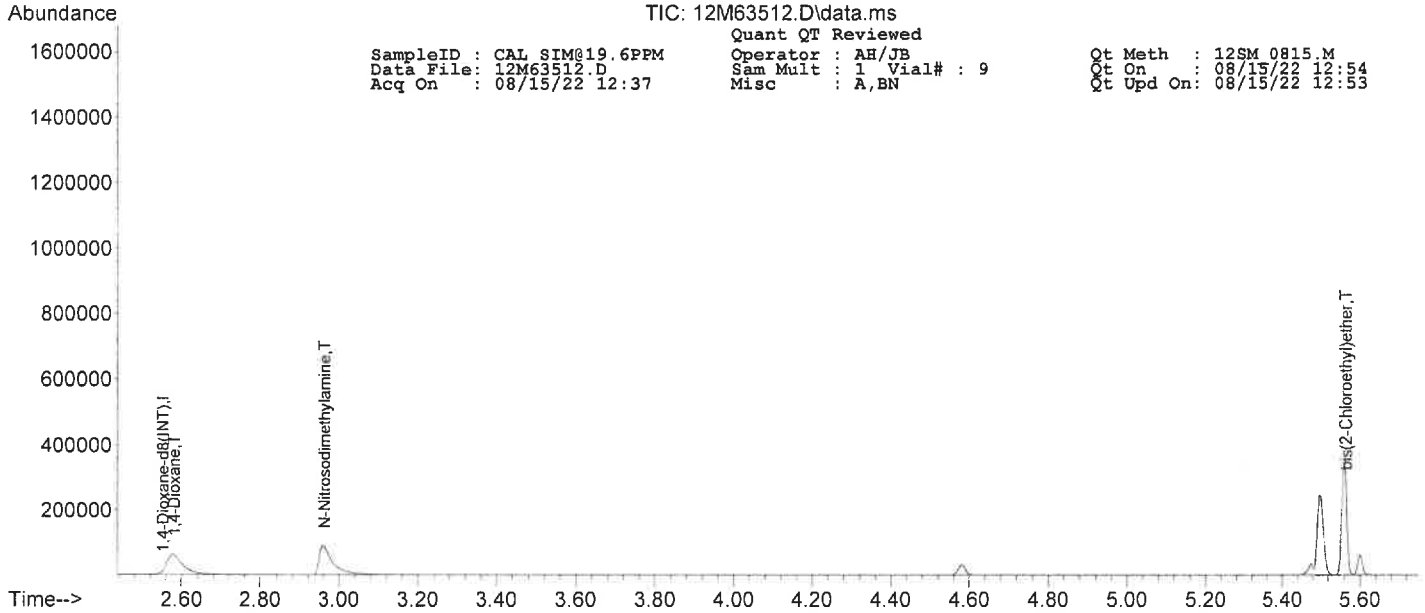
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@19.6PPM Operator : AH/JB Qt Meth : 12SM_0815.M
Data File: 12M63512.D Sam Mult : 1 Vial# : 9 Qt On : 08/15/22 12:54
Acq On : 08/15/22 12:37 Misc : A,BN Qt Upd On: 08/15/22 12:53

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-15-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.551	96	23096	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.785	152	32792	0.40	ng	0.00
9) Naphthalene-d8	6.787	136	147184	0.40	ng	0.00
14) Acenaphthene-d10	8.213	164	70294	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	125651	0.40	ng	0.00
31) Chrysene-d12	12.714	240	60522m	0.40	ng	0.00
36) Perylene-d12	14.331	264	43812	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.227	82	6121125	83.25	ng	0.00
Spiked Amount 50.000			Recovery = 166.50%			
17) 2-Fluorobiphenyl	7.624	172	10509948	52.87	ng	0.00
Spiked Amount 50.000			Recovery = 105.74%			
33) Terphenyl-d14	11.474	244	10859849	96.91	ng	0.00
Spiked Amount 50.000			Recovery = 193.82%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.582	88	1043453	16.9129	ng	95
4) N-Nitrosodimethylamine	2.962	74	1431244	18.2166	ng	79
5) bis(2-Chloroethyl)ether	5.563	93	1722008	13.7344	ng	84
6) 2-Methylphenol	5.981	108	1487862	19.7315	ng	89
7) Hexachloroethane	6.203	201	668601	17.4688	ng	44
8) 3&4-Methylphenol	6.106	108	1516567	19.9866	ng	98
11) 2,4-Dimethylphenol	6.519	107	1246893	20.6877	ng	86
12) Naphthalene	6.800	128	4888493	14.5856	ng	100
13) Hexachlorobutadiene	6.902	225	1062315	16.1379	ng	51
15) Hexachlorocyclopentadiene	7.463	237	993221	19.0473	ng	97
16) 2,4,5-Trichlorophenol	7.575	196	1018816m	20.3530	ng	
18) Acenaphthylene	8.084	152	5051879	16.3711	ng	97
19) Acenaphthene	8.234	153	2933183	14.2904	ng	77
20) Dibenzofuran	8.395	168	4062257	12.7045	ng	95
21) Fluorene	8.711	166	2923284	15.9339	ng	99
23) 4,6-Dinitro-2-methylph...	8.745	198	459973	36.8116	ng	94
24) 1,2-Diphenylhydrazine	8.856	77	3450319	20.8875	ng	32
25) Hexachlorobenzene	9.255	284	1214333	16.0152	ng	67
26) Pentachlorophenol	9.448	266	630346	19.7157	ng	87
27) Phenanthrene	9.686	178	5174712	15.6690	ng	97
28) Anthracene	9.738	178	4854887	18.8463	ng	96
29) Carbazole	9.911	167	4691483	18.4921	ng	95
30) Fluoranthene	11.014	202	5732831	20.1150	ng	94
32) Pyrene	11.277	202	5998286	17.0290	ng	76
34) Benzo[a]anthracene	12.697	228	4002347	23.9622	ng	97
35) Chrysene	12.742	228	3645846	15.9289	ng	98
37) Benzo[b]fluoranthene	13.921	252	3380593	19.2249	ng	94
38) Benzo[k]fluoranthene	13.951	252	3524794	16.5098	ng	94
39) Benzo[a]pyrene	14.268	252	3537717	18.8999	ng	91
40) Indeno[1,2,3-cd]pyrene	15.614	276	3746127	22.5305	ng	97
41) Dibenzo[a,h]anthracene	15.639	278	2916675	21.2098	ng	94
42) Benzo[g,h,i]perylene	15.976	276	3167785	19.1954	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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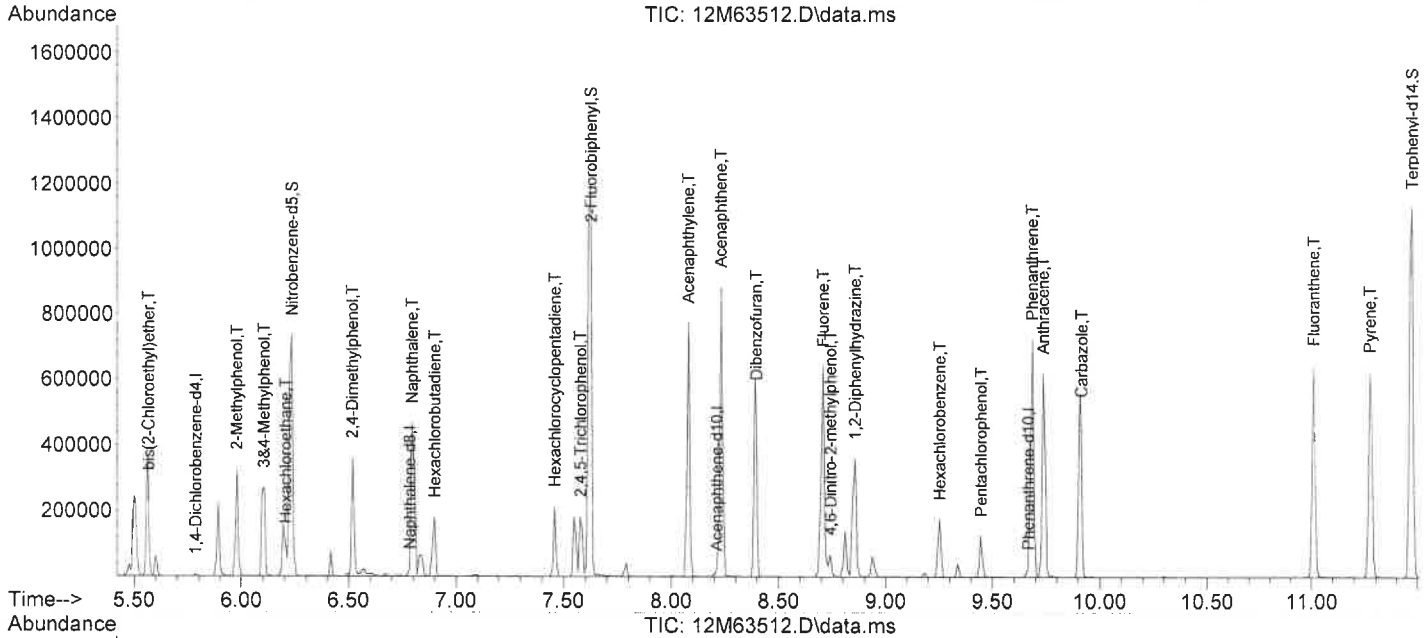
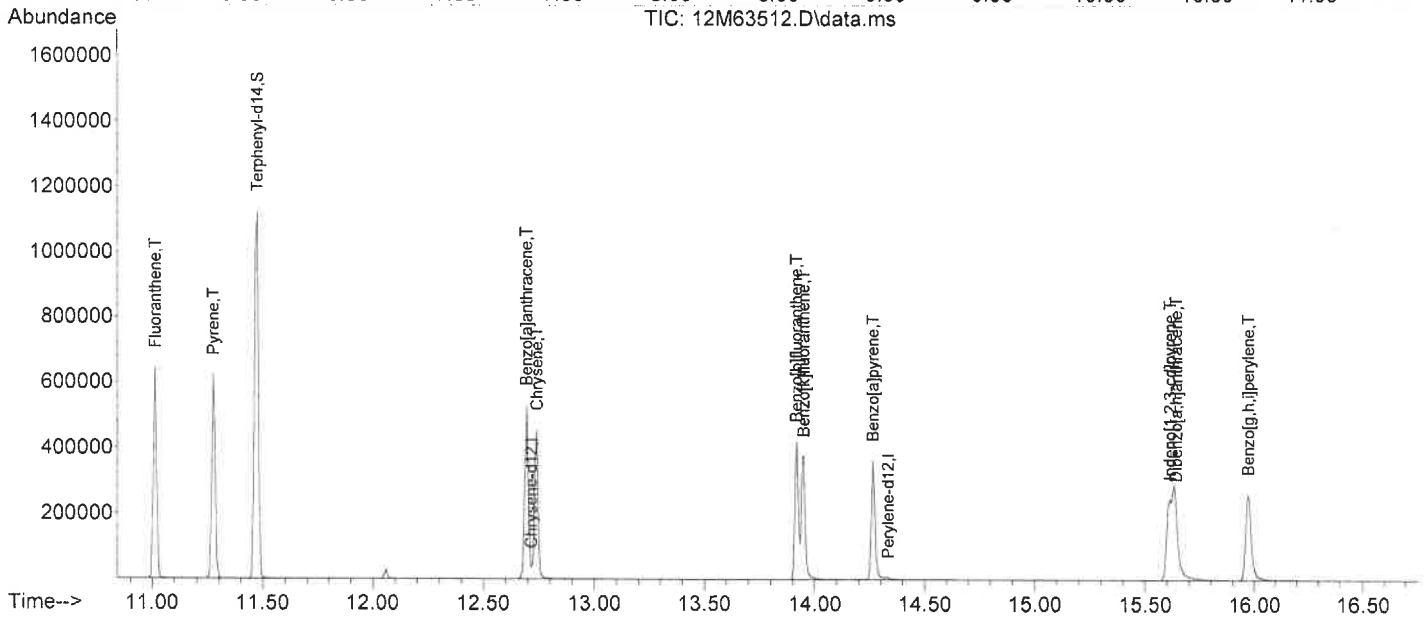
Quant QT Reviewed
SampleID : CAL SIM@19.6PPM
Data File: 12M63512.D
Acq On : 08/15/22 12:37
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/15/22 12:54
Qt Upd On: 08/15/22 12:53
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M63512.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63512.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene,T
Chrysene-d12,I
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M63592.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 8/19/2022 9:09:00 A **Method:** EPA8270E SIM

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	4.63		**		1.069			
1,4-Dichlorobenzene-d4	1	0	I	5.78	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.97	5.55	5	20	0.01	0.958	1.064	11.06	
bis(2-Chloroethyl)ether	1	0		5.56	4.57		**		1.527			
2-Methylphenol	1	0		5.98	5.98	5	20		0.918	1.099	19.67	
Hexachloroethane	1	0		6.20	5.09	5	20	0.3	0.467	0.475	1.74	
3&4-Methylphenol	1	0		5.98	5.94	5	20		0.926	1.100	18.78	
Naphthalene-d8	1	0	I	6.79	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	25.97		**		0.201			
2,4-Dimethylphenol	1	0		6.52	5.63	5	20		0.166	0.186	12.53	
Naphthalene	1	0		6.80	4.80	5	20	0.7	0.914	0.877	4.02	
Hexachlorobutadiene	1	0		6.90	4.50	5	20	0.01	0.179	0.161	10.05	
Acenaphthene-d10	1	0	I	8.21	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.46	4.82	5	20		0.296	0.285	3.53	
2,4,5-Trichlorophenol	1	0		7.58	4.72		**		0.275			
2-Fluorobiphenyl	1	0	S	7.62	23.20		**		1.131			
Acenaphthylene	1	0		8.08	5.21	5	20	0.9	1.756	1.829	4.13	
Acenaphthene	1	0		8.23	4.77	5	20	0.9	1.170	1.117	4.54	
Dibenzofuran	1	0		8.39	4.59	5	20		1.821	1.557	8.26	
Fluorene	1	0		8.71	5.17	5	20	0.9	1.046	1.081	3.33	
Phenanthrene-d10	1	0	I	9.66	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.74	5.51	5	20	0.01	0.040	0.050	10.24	
1,2-Diphenylhydrazine	1	0		8.85	4.55	5	20		0.528	0.603	8.99	
Hexachlorobenzene	1	0		9.25	4.57	5	20	0.1	0.242	0.221	8.52	
Pentachlorophenol	1	0		9.45	5.67	5	20	0.05	0.071	0.105	13.46	
Phenanthrene	1	0		9.68	4.79	5	20	0.7	1.053	1.008	4.25	
Anthracene	1	0		9.74	5.42	5	20	0.7	0.821	0.890	8.33	
Carbazole	1	0		9.91	5.53	5	20	0.01	0.808	0.894	10.58	
Fluoranthene	1	0		11.01	6.00	5	20	0.6	0.910	1.091	19.90	
Chrysene-d12	1	0	I	12.70	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.27	4.55	5	20	0.6	2.329	2.118	9.05	
Terphenyl-d14	1	0	S	11.47	22.62		**		1.208			
Benzo[a]anthracene	1	0		12.69	4.80	5	20	0.8	1.104	1.377	3.99	
Chrysene	1	0		12.74	4.42	5	20	0.7	1.514	1.339	11.56	
Perylene-d12	1	0	I	14.32	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.91	5.21	5	20	0.7	1.603	1.670	4.14	
Benzo[k]fluoranthene	1	0		13.94	4.79	5	20	0.7	1.936	1.856	4.14	
Benzo[a]pyrene	1	0		14.26	4.87	5	20	0.7	1.471	1.663	2.65	
Indeno[1,2,3-cd]pyrene	1	0		15.60	4.60	5	20	0.5	1.517	1.676	8.05	
Dibenzo[a,h]anthracene	1	0		15.63	4.37	5	20	0.4	1.245	1.309	12.58	
Benzo[g,h,i]perylene	1	0		15.97	4.88	5	20	0.5	1.507	1.472	2.35	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM
Data File: 12M63592.D
Acq On : 08/19/22 09:09

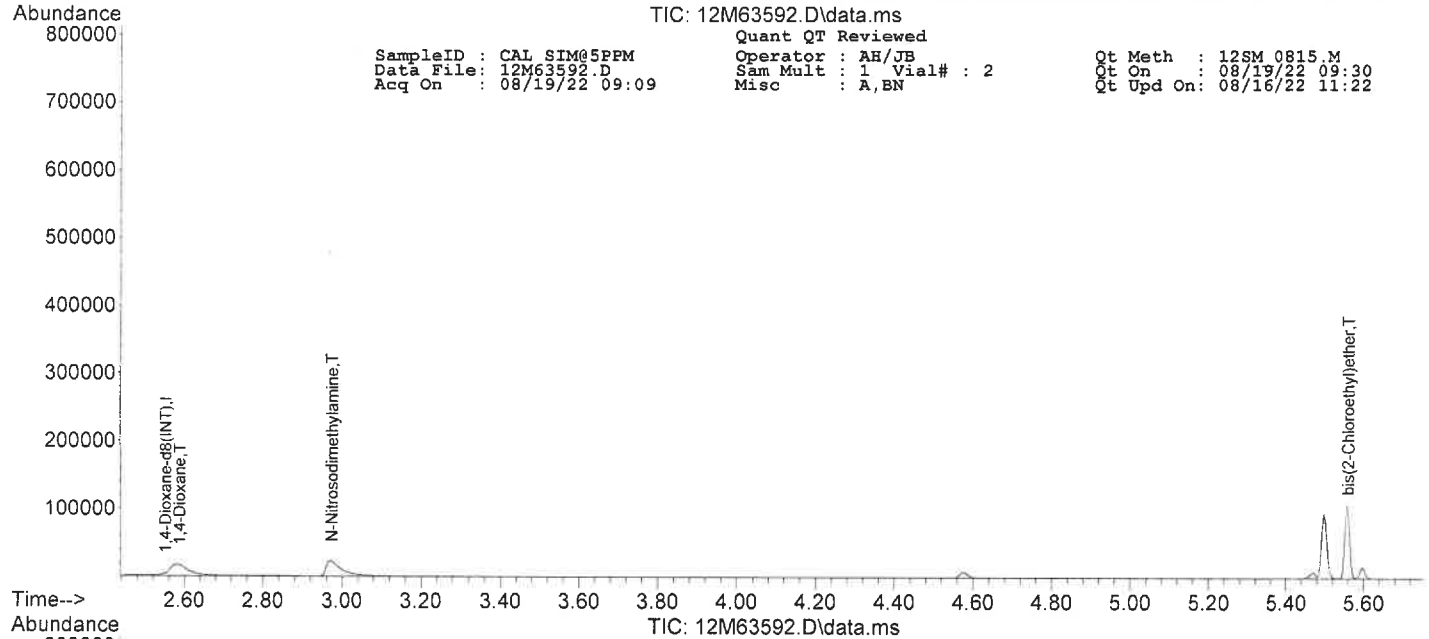
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN

Qt Meth : 12SM_0815.M
Qt On : 08/19/22 09:30
Qt Upd On: 08/16/22 11:22

Data Path : G:\GCMSDATA\2022\GCMS_12SM\DATA\08-19-22\
Qt Path : G:\GCMSDATA\2022\GCMS_12SM\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.555	96	24236	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.784	152	31231	0.40	ng	0.00
9) Naphthalene-d8	6.786	136	145140	0.40	ng	0.00
14) Acenaphthene-d10	8.212	164	65959	0.40	ng	0.00
22) Phenanthrene-d10	9.659	188	133138	0.40	ng	0.00
31) Chrysene-d12	12.702	240	72314m	0.40	ng	0.00
36) Perylene-d12	14.325	264	50268	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.225	82	1892271	25.97	ng	0.00
Spiked Amount 50.000			Recovery = 51.94%			
17) 2-Fluorobiphenyl	7.619	172	3798960	23.20	ng	0.00
Spiked Amount 50.000			Recovery = 46.40%			
33) Terphenyl-d14	11.467	244	4027465	22.62	ng	0.00
Spiked Amount 50.000			Recovery = 45.24%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.585	88	299721	4.6259	ng	96
4) N-Nitrosodimethylamine	2.973	74	415550	5.5528	ng	78
5) bis(2-Chloroethyl)ether	5.561	93	544588	4.5667	ng	89
6) 2-Methylphenol	5.981	108	428914	5.9834	ng	86
7) Hexachloroethane	6.198	201	185479	5.0870	ng	36
8) 3&4-Methylphenol	5.980	108	429241	5.9390	ng	87
11) 2,4-Dimethylphenol	6.519	107	338246	5.6266	ng	79
12) Naphthalene	6.799	128	1590967	4.7990	ng	99
13) Hexachlorobutadiene	6.901	225	292644	4.4973	ng	48
15) Hexachlorocyclopentadiene	7.462	237	235354	4.8235	ng	91
16) 2,4,5-Trichlorophenol	7.575	196	213843m	4.7185	ng	
18) Acenaphthylene	8.082	152	1507690	5.2064	ng	99
19) Acenaphthene	8.233	153	920576	4.7729	ng	82
20) Dibenzofuran	8.391	168	1283632	4.5869	ng	92
21) Fluorene	8.710	166	891458	5.1667	ng	91
23) 4,6-Dinitro-2-methylph...	8.743	198	82616	5.5120	ng	81
24) 1,2-Diphenylhydrazine	8.848	77	1003364	4.5503	ng	91
25) Hexachlorobenzene	9.254	284	368006	4.5741	ng	92
26) Pentachlorophenol	9.448	266	174375	5.6731	ng	96
27) Phenanthrene	9.681	178	1677812	4.7874	ng	97
28) Anthracene	9.737	178	1480446	5.4163	ng	98
29) Carbazole	9.908	167	1487661	5.5289	ng	94
30) Fluoranthene	11.012	202	1816066	5.9950	ng	96
32) Pyrene	11.275	202	1914697	4.5474	ng	92
34) Benzo[a]anthracene	12.693	228	1244537	4.8006	ng	95
35) Chrysene	12.735	228	1210613	4.4222	ng	96
37) Benzo[b]fluoranthene	13.913	252	1049232	5.2070	ng	95
38) Benzo[k]fluoranthene	13.942	252	1166180	4.7928	ng	94
39) Benzo[a]pyrene	14.260	252	1044816	4.8673	ng	89
40) Indeno[1,2,3-cd]pyrene	15.604	276	1053178	4.5977	ng	95
41) Dibenzo[a,h]anthracene	15.629	278	822641	4.3708	ng	92
42) Benzo[g,h,i]perylene	15.966	276	924622	4.8824	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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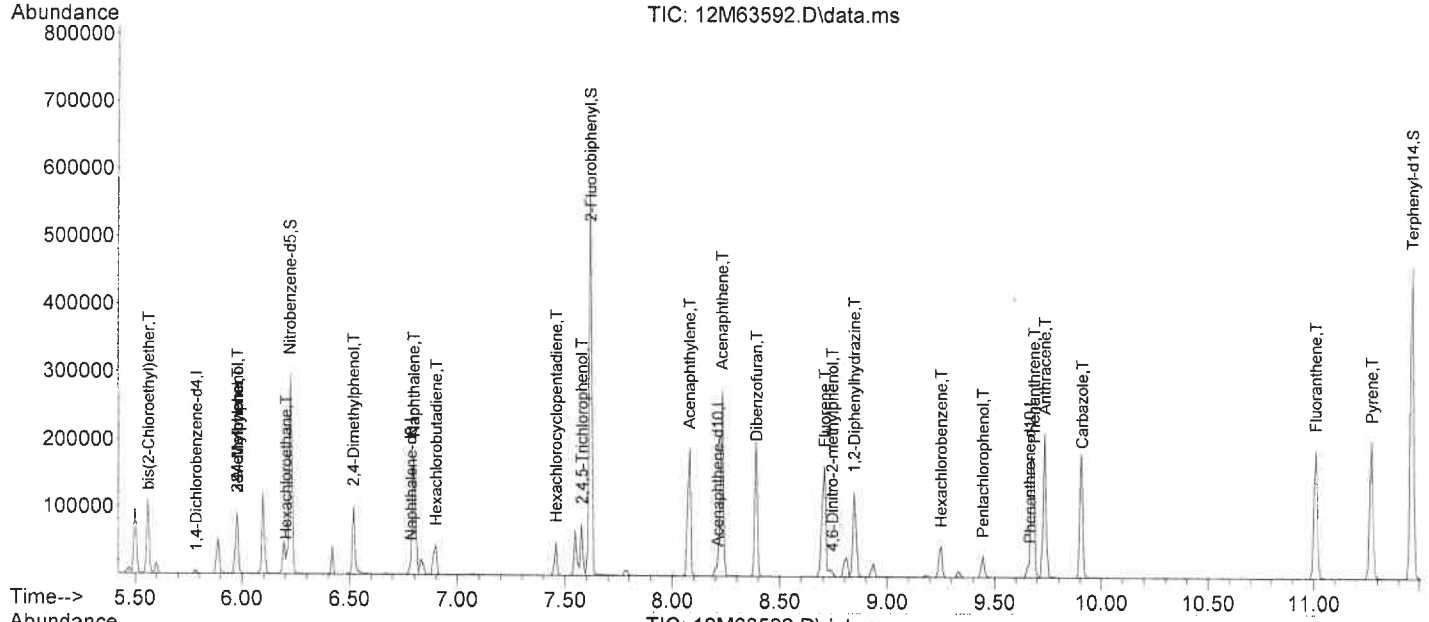
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M63592.D
Acq On : 08/19/22 09:09
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0815.M
Qt On : 08/19/22 09:30
Qt Upd On: 08/16/22 11:22
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
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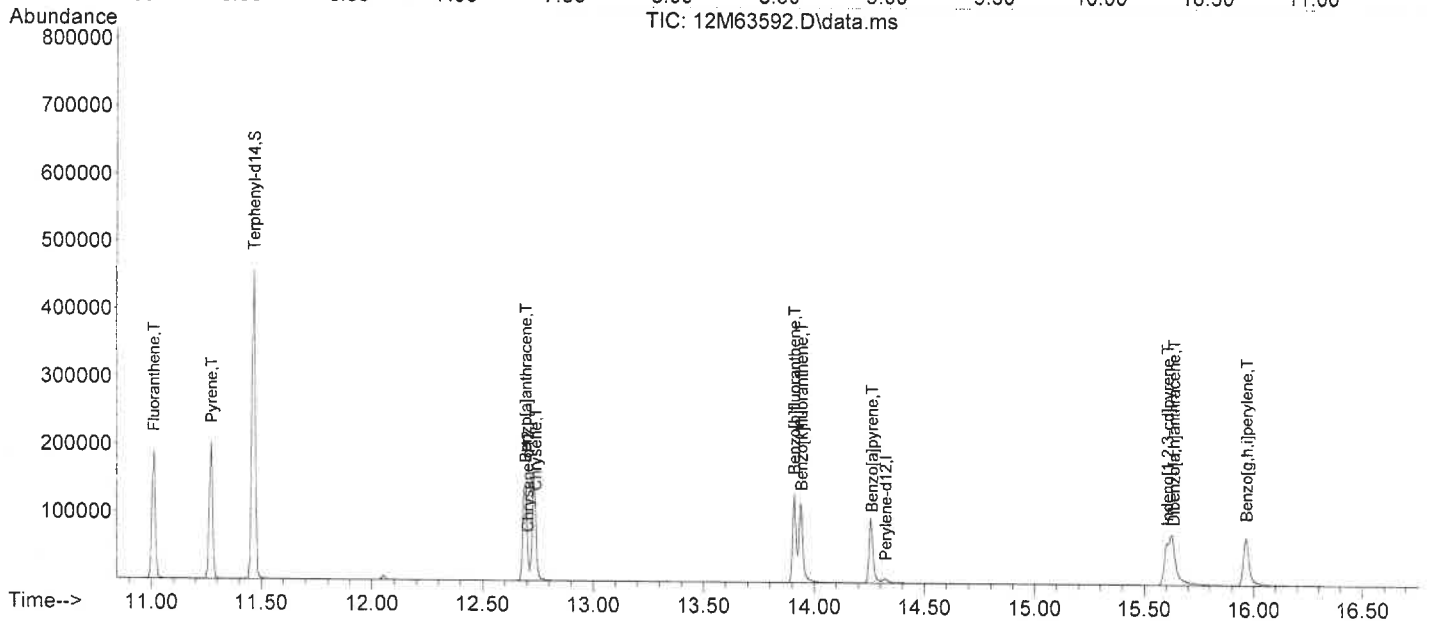
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Hexachloroethane,T
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene,T
Dibenzofuran,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Time-->


Abundance
TIC: 12M63592.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

QC102718 Pest

QC102719 PCB

Hampton-Clarke

Shaker Extraction: (Pest) (3510C) / (PCB) (3510C) / Other(_____):

Pest Batch No.: 102718
Start Ext Date/Time: ~~8:17 gn~~ 8/17/22 8/17/22 5:02pm
End Ext. Date/Time: 8/18/22 4:27am
Recirculator: Start temp: 20.0, 15.0
End temp: 20.1, 14.8

PCB Batch No.: 102719
Shaker Used: 2, 3, 4
Condenser Used: 1, 2
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 102718 / 719	X	X	1000mL	5mL	gn	32691-001	EF, 377745 8/16
MBS 102718/719	X	X	↓	↓	↓		
MS 32691-001	X		100mL				
MSD 32691-001	X		↓				
MS 32707-011		X	500mL				
MSD 32707-011		X	↓				
AD 32691-001	1		100mL			1	1
EF, 377745 8/16	X		↓	↓			
AD 32707-011		1	500mL	2.5mL	1/2 Surr.		
↓ -012		2	1000mL	5mL			
AD 32679-001	2	3					
AD 32715-001		4					
-002		5					
-003		6					
-004		7					
-005		8					
↓ -006		9					
AD 32722-001	3	10					
-003	4	11					
↓ -006	5	12	↓	↓	↓		
					Rack #19		
Copper Cleanup:	____	____					
Sulfuric Acid Cleanup:	N/A	X					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	370012	(Pest) / PCB / multi
↓	100	374762	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	375936	(Pest / PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 14765 Hexane: 14721 baked Na_2SO_4: 377180 Copper Powder: _____ Sulfuric Acid: _____

Relinquished By: gn Date: 8/17/22
Received By: AR Date: 8/18/22

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/22/22
Data File: SW08222022A
Prep Batch: 101940
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 2081222

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-378228-11	CCB V-378228-22	CCB V-377708-34	CCB V-377708-46	CCB V-378228-52	MB 101940-23
Arsenic	.5U	1U	1U	1U	1U	1U
Beryllium	.25U	.5U	.5U	.5U	.5U	.5U
Chromium	.5U	1U	1U	1U	1U	1U
Copper	2.5U	5U	5U	5U	5U	5U
Iron	75U	150U	150U	150U	150U	150U
Lead	.75U	1.5U	1.5U	1.5U	1.5U	1.5U
Nickel	.75U	1.5U	1.5U	1.5U	1.5U	1.5U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 101940

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 101940

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	25	SW082220	24	256.0710	257.6840	.63	20
Chromium	101940	SW082220	25	SW082220	24	273.6870	275.4190	.63	20
Copper	101940	SW082220	25	SW082220	24	257.5620	257.5060	.022	20
Lead	101940	SW082220	25	SW082220	24	245.5650	245.8830	.13	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	27	SW082220	26	1U	1U	---	20
Chromium	101940	SW082220	27	SW082220	26	1U	1U	---	20
Copper	101940	SW082220	27	SW082220	26	5U	5U	---	20
Lead	101940	SW082220	27	SW082220	26	1.5U	1.5U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	101940	SW082220	29	SW082220	28	261.4290	248.9670	4.9	20
Chromium	101940	SW082220	29	SW082220	28	273.0760	261.3450	4.4	20
Copper	101940	SW082220	29	SW082220	28	254.2400	239.9580	5.8	20
Lead	101940	SW082220	29	SW082220	28	243.4830	230.7070	5.4	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD32715-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	101940	SW082220	31	SW082220	26	5	0.0930	0.5390	14	a	10
Chromium	101940	SW082220	31	SW082220	26	5	0.1480	0.4610	61	c	10
Copper	101940	SW082220	31	SW082220	26	5	-0.0020	0.4940	---		10
Lead	101940	SW082220	31	SW082220	26	5	0.0600	0.2880	4.2		10

a-Indicates Rpd Failed the criteria
b-Method Rep Out but concentrations < 5*RL
c-Serial dilution Out but conc < 10 * IDL

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

MNR Harmon Yard
Hampton-Clarke SDG#AD36716
May 16, 2023
Sampling date: 3/8, 9/2023

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Day Environmental, Inc., project located at MNR Harmon Yard, Hampton-Clarke SDG#AD36716 submitted to Vali-Data of WNY, LLC on March 22, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260D), Semi-Volatile Organics (8270E, 8270E SIM), PCB (8082A) and Inorganics (6020B).

DUSR ID	Sample ID	Laboratory ID
1	DAY-1	AD36716-01
2	VE 4-9	AD36716-02
3	FA 4-9	AD36716-03
4	VE 4-7	AD36716-04
5	FA 4-16	AD36716-05
6	PGW-2	AD36716-06
7	Oull-A	AD36716-07
8	Oull-B	AD36716-08
9	Oull-C	AD36716-09
10	Oull-D	AD36716-10
11	OU11-E	AD36716-11
12	OU11-F	AD36716-12
13	VE 3-1	AD36716-13
14	VE 1-2	AD36716-14
15	VE 1-4	AD36716-15
16	VE 1-4 MS	AD36716-16
17	VE 1-4 MSD	AD36716-17
18	VE 2-1	AD36716-18
19	VE 4-11	AD36716-19
20	030923DUP	AD36716-20
21	030923EB	AD36716-21
22	Trip Blank	AD36716-22

All target analytes were recorded to the reporting limits.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recovery, Laboratory Control Samples, MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met except the pH of DUSR ID#1 and #13-20 was outside QC limits. These samples were analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Toluene-d_8 was outside QC limits, low in DUSR ID#17. The associated target analytes below should be qualified as estimated in this sample.

1,3,5-Trimethylbenzene	Benzene	Chlorobenzene
Isopropylbenzene	m&p-Xylene	Ethylbenzene
Toluene	o-Xylene	

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of some target analytes were outside QC limits in the laboratory control samples and should be qualified as estimated. These target analytes should be qualified in the associated samples.

LCS ID	Target Analyte	%Rec	Qualifier	Associated Sample
MBS107544	Ethylbenzene	62	UJ	15
MBS107544	m&p-Xylene	65	UJ	15
MBS107544	Naphthalene	44	UJ	15
MBS107544	Methyl tert butyl ether	164	JH	none
MBS107552	1,3,5-Trimethylbenzene	383	JH	13

MS/MSD
All criteria were met except the %Rec of a couple of target analytes was outside QC limits in the matrix spike and the matrix spike duplicate and should be qualified as estimated. These target analytes should be qualified in the associated samples.

Target Analyte	%Rec #16	%Rec #17	Qualifier	Associated Sample
Methyl tert butyl ether	147	178	JH	none
Toluene	68	72	UJ	15, 20

Some target analytes were outside QC limits in the matrix spike or the matrix spike duplicate but not both, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D	Qualifier	Associated Sample
6M165218.D	Toluene	29.87	UJ/J	MB/MBS107544, 15-17
6M165218.D	n-Butylbenzene	28.31	UJ/J	MB/MBS107544, 15-17
6M165256.D	Methyl tert butyl ether	72.16	UJ/J	MB/MBS107552, 13, 14, 18-20
6M165256.D	Ethylbenzene	21.27	UJ/J	MB/MBS107552, 13, 14, 18-20
6M165299.D	Methyl tert butyl ether	73.35	UJ/J	MB/MBS107558, 21, 22
6M165299.D	Ethylbenzene	25.44	UJ/J	MB/MBS107558, 21, 22
6M165299.D	o-Xylene	23.38	UJ/J	MB/MBS107558, 21, 22

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the %D of 1,4-Dioxane was not recorded on Form 7 for the continuing calibration file #12M66140.D. An updated form is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#15, #18, #20, #21 and WMB106862. There were no associated target analytes detected in these samples, so no further action is required.
The %Rec of Nitrobenzene-d_5 was outside QC limits, high in DUSR ID#16, #17 and MS106862. The associated target analytes below should be qualified as estimated high in these spikes.

2-Methylnaphthalene	Naphthalene

The %Rec of Nitrobenzene-d_5 was outside QC limits, low in DUSR ID#1. The associated target analytes below should be qualified as estimated in this sample.

2-Methylnaphthalene	Naphthalene

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Initial Calibration and Continuing Calibration.

Samples: DUSR ID#2, #4 and #7 were diluted.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the chromatogram for DUSR ID#21 was not legible in the original package. Updated pages are attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a single point calibration was used for all target analytes except Aroclor 1016 and Aroclor 1260. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	2-5, 7, 8

CONTINUING CALIBRATION
All criteria were met except continuing calibrations were performed for target analytes Aroclor 1016 and Aroclor 1260 only. All other detected target analytes in the samples, blanks and spikes should be qualified as estimated.

Target Analyte	Qualifier	Associated Sample
Aroclor 1254	J	2-5, 7, 8

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Serial Dilution.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
All criteria were met except Cr, Cu and Pb were detected in DUSR ID#15 but were not detected in #20.

SERIAL DILUTION
All criteria were met except the %D of a couple of target analytes was outside QC limits in the serial dilution and should be qualified as estimated.

Serial Dilution ID	Target Analyte	%D	Qualifier	Associated Sample
15SD	As	22	UJ	15, 20
15SD	Pb	34	UJ/J	15, 20

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met.

HC Case Narrative

Client: Day Engineering
Project: Harmon OU-1/OU-11

HC Project: 3031102

Hampton-Clarke (HC) received the following samples on 3/10/23:

Client ID	HC Sample ID	Matrix	Analysis
DAY-1	AD36716-001	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 4-9	AD36716-002	Aqueous	PCB (8082A)
FA 4-9	AD36716-003	Aqueous	PCB (8082A)
VE 4-7	AD36716-004	Aqueous	PCB (8082A)
FA 4-16	AD36716-005	Aqueous	PCB (8082A)
PGW-2	AD36716-006	Aqueous	PCB (8082A)
Oull-A	AD36716-007	Aqueous	PCB (8082A)
Oull-B	AD36716-008	Aqueous	PCB (8082A)
Oull-C	AD36716-009	Aqueous	PCB (8082A)
Oull-D	AD36716-010	Aqueous	PCB (8082A)
OU11-E	AD36716-011	Aqueous	PCB (8082A)
OU11-F	AD36716-012	Aqueous	PCB (8082A)
VE 3-1	AD36716-013	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-2	AD36716-014	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4	AD36716-015	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4 MS	AD36716-016	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 1-4 MSD	AD36716-017	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), PCB (8082A), TAL Metals (6020B)
VE 2-1	AD36716-018	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
VE 4-11	AD36716-019	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
030923DUP	AD36716-020	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
030923 EB	AD36716-021	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E), Base Neutrals SIM (8270E), PCB (8082A), TAL Metals (6020B)
Trip Blank	AD36716-022	Aqueous	Volatile Organics (8260D)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batches 107539, 107544, 107552, 107558 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batch 107552. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 107539, 107544 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral Analysis:

The Method Blank Spike for batches 106837, 106862 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 106862 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 106837 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD36716-001 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

PCB Analysis:

The Method Blank Spike for batch 106874 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

Sample AD36716-004 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Sample AD36716-020 was extracted outside the hold time.

Metals Analysis:

The serial dilution for batch 104579 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this 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 hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	 Jean Revolus Laboratory Director	4/18/2023 Date

HC Report of Analysis

Client: Day Engineering
Project: Harmon OU-1/OU-11

HC Project #: 3031102

Sample ID: DAY-1
Lab#: AD36716-001
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	**1**	**ug/l**	**2.0**	**4.1**
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	**1**	**ug/l**	**2.0**	**7.2**
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	**1**	**ug/l**	**2.0**	**11**
Pyrene	1	ug/l	2.0	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	**1**	**ug/l**	**2.0**	**9.4**
Chromium	**1**	**ug/l**	**2.0**	**4.9**
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND

Sample ID: DAY-1 **Collection Date:** 3/8/2023
Lab#: AD36716-001 **Receipt Date:** 3/10/2023
Matrix: Aqueous

m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 4-9
Lab#: AD36716-002
Matrix: Oil
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**mg/kg**	**2.5**	**52**
Aroclor-1016	5	mg/kg	2.5	ND
Aroclor-1221	5	mg/kg	2.5	ND
Aroclor-1232	5	mg/kg	2.5	ND
Aroclor-1242	5	mg/kg	2.5	ND
Aroclor-1248	5	mg/kg	2.5	ND
Aroclor-1254	**5**	**mg/kg**	**2.5**	**52**
Aroclor-1260	5	mg/kg	2.5	ND
Aroclor-1262	5	mg/kg	2.5	ND
Aroclor-1268	5	mg/kg	2.5	ND

Sample ID: FA 4-9 **Collection Date:** 3/8/2023
Lab#: AD36716-003 **Receipt Date:** 3/10/2023
Matrix: Oil

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**30**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	**1**	**mg/kg**	**0.50**	**30**
Aroclor-1260	1	mg/kg	0.50	ND
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: VE 4-7
Lab#: AD36716-004
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**ug/l**	**1.3**	**47**
Aroclor-1016	5	ug/l	1.3	ND
Aroclor-1221	5	ug/l	1.3	ND
Aroclor-1232	5	ug/l	1.3	ND
Aroclor-1242	5	ug/l	1.3	ND
Aroclor-1248	5	ug/l	1.3	ND
Aroclor-1254	**5**	**ug/l**	**1.3**	**47**
Aroclor-1260	5	ug/l	1.3	ND
Aroclor-1262	5	ug/l	1.3	ND
Aroclor-1268	5	ug/l	1.3	ND

Sample ID: FA 4-16
Lab#: AD36716-005
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**34**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	**1**	**mg/kg**	**0.50**	**34** ~~X~~ 5 4m
Aroclor-1260	1	mg/kg	0.50	ND
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: PGW-2
Lab#: AD36716-006
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**4.7**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	1	mg/kg	0.50	ND
Aroclor-1260	**1**	**mg/kg**	**0.50**	**4.7**
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: Oull-A
Lab#: AD36716-007
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**5**	**ug/l**	**1.3**	**33**
Aroclor-1016	5	ug/l	1.3	ND
Aroclor-1221	5	ug/l	1.3	ND
Aroclor-1232	5	ug/l	1.3	ND
Aroclor-1242	5	ug/l	1.3	ND
Aroclor-1248	5	ug/l	1.3	ND
Aroclor-1254	**5**	**ug/l**	**1.3**	**33**
Aroclor-1260	5	ug/l	1.3	ND
Aroclor-1262	5	ug/l	1.3	ND
Aroclor-1268	5	ug/l	1.3	ND

Sample ID: Oull-B
Lab#: AD36716-008
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**ug/l**	**0.50**	**7**
Aroclor-1016	1	ug/l	0.50	ND
Aroclor-1221	1	ug/l	0.50	ND
Aroclor-1232	1	ug/l	0.50	ND
Aroclor-1242	1	ug/l	0.50	ND
Aroclor-1248	1	ug/l	0.50	ND
Aroclor-1254	**1**	**ug/l**	**0.50**	**7**
Aroclor-1260	1	ug/l	0.50	ND
Aroclor-1262	1	ug/l	0.50	ND
Aroclor-1268	1	ug/l	0.50	ND

Sample ID: Oull-C
Lab#: AD36716-009
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: Oull-D
Lab#: AD36716-010
Matrix: Oil

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**mg/kg**	**0.50**	**2.3**
Aroclor-1016	1	mg/kg	0.50	ND
Aroclor-1221	1	mg/kg	0.50	ND
Aroclor-1232	1	mg/kg	0.50	ND
Aroclor-1242	1	mg/kg	0.50	ND
Aroclor-1248	1	mg/kg	0.50	ND
Aroclor-1254	1	mg/kg	0.50	ND
Aroclor-1260	**1**	**mg/kg**	**0.50**	**2.3**
Aroclor-1262	1	mg/kg	0.50	ND
Aroclor-1268	1	mg/kg	0.50	ND

Sample ID: OU11-E
Lab#: AD36716-011
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: OU11-F
Lab#: AD36716-012
Matrix: Aqueous

Collection Date: 3/8/2023
Receipt Date: 3/10/2023

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**ug/l**	**0.25**	**7.5**
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	**1**	**ug/l**	**0.25**	**7.5**
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Sample ID: VE 3-1 **Collection Date:** 3/9/2023
Lab#: AD36716-013 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	**1**	**ug/l**	**2.0**	**35**
Acenaphthene	**1**	**ug/l**	**2.0**	**13**
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	**1**	**ug/l**	**2.0**	**2.8**
Fluorene	**1**	**ug/l**	**2.0**	**16**
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	**1**	**ug/l**	**2.0**	**30**
Pyrene	**1**	**ug/l**	**2.0**	**4.4**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	**1**	**ug/l**	**2.0**	**4.9**
Chromium	**1**	**ug/l**	**2.0**	**3.0**
Copper	1	ug/l	10	ND
Lead	**1**	**ug/l**	**3.0**	**3.9**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	**1**	**ug/l**	**1.0**	**3.5**
1,3,5-Trimethylbenzene	**1**	**ug/l**	**1.0**	**2.2**
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	**1**	**ug/l**	**1.0**	**1.4**
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	**1**	**ug/l**	**1.0**	**1.0**
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND

Sample ID: VE 3-1 **Collection Date:** 3/9/2023
Lab#: AD36716-013 **Receipt Date:** 3/10/2023
Matrix: Aqueous

t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 1-2 **Collection Date:** 3/9/2023
Lab#: AD36716-014 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 1-2**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-014**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: VE 1-4 **Collection Date:** 3/9/2023
Lab#: AD36716-015 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	**1**	**ug/l**	**2.0**	**2.3**
Copper	**1**	**ug/l**	**10**	**16**
Lead	**1**	**ug/l**	**3.0**	**6.3**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**VE 1-4**
Lab#:	**AD36716-015**
Matrix:	**Aqueous**
Collection Date:	**3/9/2023**
Receipt Date:	**3/10/2023**

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 1-4 MS
Lab#: AD36716-016
Matrix: Aqueous

Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	41
2-Methylnaphthalene	1	ug/l	2.0	100
Acenaphthene	1	ug/l	2.0	98
Acenaphthylene	1	ug/l	2.0	95
Anthracene	1	ug/l	2.0	100
Benzo[a]anthracene	1	ug/l	2.0	96
Benzo[a]pyrene	1	ug/l	2.0	110
Benzo[b]fluoranthene	1	ug/l	2.0	110
Benzo[g,h,i]perylene	1	ug/l	2.0	96
Benzo[k]fluoranthene	1	ug/l	2.0	100
Chrysene	1	ug/l	2.0	98
Dibenzo[a,h]anthracene	1	ug/l	2.0	100
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	100
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	98
Naphthalene	1	ug/l	0.50	84
Phenanthrene	1	ug/l	2.0	99
Pyrene	1	ug/l	2.0	100

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	13
Aroclor-1016	1	ug/l	0.25	6.4
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	6.7
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	460
Chromium	1	ug/l	2.0	460
Copper	1	ug/l	10	470
Lead	1	ug/l	3.0	420

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	15
1,3,5-Trimethylbenzene	1	ug/l	1.0	14
4-Isopropyltoluene	1	ug/l	1.0	14
Benzene	1	ug/l	0.50	15
Chlorobenzene	1	ug/l	1.0	14
Ethylbenzene	1	ug/l	1.0	14
Isopropylbenzene	1	ug/l	1.0	14
m&p-Xylenes	1	ug/l	1.0	29
Methyl-t-butyl ether	1	ug/l	0.87	29
Naphthalene	1	ug/l	1.0	14
n-Butylbenzene	1	ug/l	1.0	12
n-Propylbenzene	1	ug/l	1.0	14
o-Xylene	1	ug/l	1.0	14
sec-Butylbenzene	1	ug/l	1.0	13

Sample ID:	**VE 1-4 MS**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-016**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				

t-Butylbenzene	**1**	**ug/l**	**1.0**	**13**
Toluene	**1**	**ug/l**	**1.0**	**14**
Xylenes (Total)	**1**	**ug/l**	**1.0**	**43**

Sample ID: VE 1-4 MSD
Lab#: AD36716-017
Matrix: Aqueous

Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.50	44
2-Methylnaphthalene	1	ug/l	2.0	100
Acenaphthene	1	ug/l	2.0	95
Acenaphthylene	1	ug/l	2.0	92
Anthracene	1	ug/l	2.0	97
Benzo[a]anthracene	1	ug/l	2.0	95
Benzo[a]pyrene	1	ug/l	2.0	100
Benzo[b]fluoranthene	1	ug/l	2.0	100
Benzo[g,h,i]perylene	1	ug/l	2.0	94
Benzo[k]fluoranthene	1	ug/l	2.0	110
Chrysene	1	ug/l	2.0	93
Dibenzo[a,h]anthracene	1	ug/l	2.0	97
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	93
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	94
Naphthalene	1	ug/l	0.50	89
Phenanthrene	1	ug/l	2.0	97
Pyrene	1	ug/l	2.0	100

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	13
Aroclor-1016	1	ug/l	0.25	6.2
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	6.4
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	450
Chromium	1	ug/l	2.0	450
Copper	1	ug/l	10	450
Lead	1	ug/l	3.0	410

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	17
1,3,5-Trimethylbenzene	1	ug/l	1.0	19
4-Isopropyltoluene	1	ug/l	1.0	18
Benzene	1	ug/l	0.50	19
Chlorobenzene	1	ug/l	1.0	19
Ethylbenzene	1	ug/l	1.0	17
Isopropylbenzene	1	ug/l	1.0	17
m&p-Xylenes	1	ug/l	1.0	35
Methyl-t-butyl ether	1	ug/l	0.87	36
Naphthalene	1	ug/l	1.0	15
n-Butylbenzene	1	ug/l	1.0	15
n-Propylbenzene	1	ug/l	1.0	19
o-Xylene	1	ug/l	1.0	18
sec-Butylbenzene	1	ug/l	1.0	18

Sample ID:	**VE 1-4 MSD**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-017**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
t-Butylbenzene	**1**	**ug/l**	**1.0**	**16**	
Toluene	**1**	**ug/l**	**1.0**	**14**	
Xylenes (Total)	**1**	**ug/l**	**1.0**	**53**	

Sample ID: VE 2-1 **Collection Date:** 3/9/2023
Lab#: AD36716-018 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID: VE 2-1 **Collection Date:** 3/9/2023
Lab#: AD36716-018 **Receipt Date:** 3/10/2023
Matrix: Aqueous

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: VE 4-11 **Collection Date:** 3/9/2023
Lab#: AD36716-019 **Receipt Date:** 3/10/2023
Matrix: Aqueous

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID: VE 4-11 **Collection Date:** 3/9/2023
Lab#: AD36716-019 **Receipt Date:** 3/10/2023
Matrix: Aqueous

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: 030923DUP
Lab#: AD36716-020
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID:	**030923DUP**			**Collection Date:**	**3/9/2023**
Lab#:	**AD36716-020**			**Receipt Date:**	**3/10/2023**
Matrix:	**Aqueous**				
n-Propylbenzene		1	ug/l	1.0	ND
o-Xylene		1	ug/l	1.0	ND
sec-Butylbenzene		1	ug/l	1.0	ND
t-Butylbenzene		1	ug/l	1.0	ND
Toluene		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: 030923 EB
Lab#: AD36716-021
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

Base Neutrals (no search) 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	1	ug/l	3.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND

Sample ID: 030923 EB
Lab#: AD36716-021
Matrix: Aqueous
Collection Date: 3/9/2023
Receipt Date: 3/10/2023

n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Trip Blank
Lab#: AD36716-022
Matrix: Aqueous
Collection Date: 3/8/2023
Receipt Date: 3/10/2023

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Chlorobenzene	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Naphthalene	1	ug/l	1.0	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 6M165207.D
Analysis Date: 03/14/23 23:40
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 6M165271.D
Analysis Date: 03/15/23 21:28
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	**1,2,4-Trimethylbenzene**	**1.0**	**3.5**	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.0**	**2.2**	**91-20-3**	**Naphthalene**	**1.0**	**1.0**
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	**Chlorobenzene**	**1.0**	**1.4**	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 6M165267.D
Analysis Date: 03/15/23 20:07
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 6M165249.D
Analysis Date: 03/15/23 13:59
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 6M165240.D
Analysis Date: 03/15/23 10:54
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	15	1634-04-4	Methyl-t-butyl ether	0.87	29
108-67-8	1,3,5-Trimethylbenzene	1.0	14	91-20-3	Naphthalene	1.0	14
99-87-6	4-Isopropyltoluene	1.0	14	104-51-8	n-Butylbenzene	1.0	12
71-43-2	Benzene	0.50	15	103-65-1	n-Propylbenzene	1.0	14
108-90-7	Chlorobenzene	1.0	14	95-47-6	o-Xylene	1.0	14
100-41-4	Ethylbenzene	1.0	14	135-98-8	sec-Butylbenzene	1.0	13
98-82-8	Isopropylbenzene	1.0	14	98-06-6	t-Butylbenzene	1.0	13
79601-23-1	m&p-Xylenes	1.0	29	108-88-3	Toluene	1.0	14
1330-20-7	Xylenes (Total)	1.0	43				

Worksheet #: 682584

Total Target Concentration 250

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 6M165241.D
Analysis Date: 03/15/23 11:14
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	17	1634-04-4	Methyl-t-butyl ether	0.87	36
108-67-8	1,3,5-Trimethylbenzene	1.0	19	91-20-3	Naphthalene	1.0	15
99-87-6	4-Isopropyltoluene	1.0	18	104-51-8	n-Butylbenzene	1.0	15
71-43-2	Benzene	0.50	19	103-65-1	n-Propylbenzene	1.0	19
108-90-7	Chlorobenzene	1.0	19	95-47-6	o-Xylene	1.0	18
100-41-4	Ethylbenzene	1.0	17	135-98-8	sec-Butylbenzene	1.0	18
98-82-8	Isopropylbenzene	1.0	17	98-06-6	t-Butylbenzene	1.0	16
79601-23-1	m&p-Xylenes	1.0	35	108-88-3	Toluene	1.0	14
1330-20-7	Xylenes (Total)	1.0	53				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 6M165268.D
Analysis Date: 03/15/23 20:27
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 6M165269.D
Analysis Date: 03/15/23 20:47
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 6M165270.D
Analysis Date: 03/15/23 21:08
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 6M165318.D
Analysis Date: 03/16/23 13:28
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD36716-022
Client Id: Trip Blank
Data File: 6M165319.D
Analysis Date: 03/16/23 13:48
Date Rec/Extracted: 03/10/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	91-20-3	Naphthalene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
71-43-2	Benzene	0.50	U	103-65-1	n-Propylbenzene	1.0	U
108-90-7	Chlorobenzene	1.0	U	95-47-6	o-Xylene	1.0	U
100-41-4	Ethylbenzene	1.0	U	135-98-8	sec-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
79601-23-1	m&p-Xylenes	1.0	U	108-88-3	Toluene	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 682584

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 5M123447.D
Analysis Date: 03/15/23 12:27
Date Rec/Extracted: 03/10/23-03/14/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**4.1**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**7.2**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**11**
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 5M123494.D
Analysis Date: 03/17/23 14:33
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	**2-Methylnaphthalene**	**2.0**	**35**	218-01-9	Chrysene	2.0	U
83-32-9	**Acenaphthene**	**2.0**	**13**	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**2.8**
120-12-7	Anthracene	2.0	U	**86-73-7**	**Fluorene**	**2.0**	**16**
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	**85-01-8**	**Phenanthrene**	**2.0**	**30**
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**4.4**

Worksheet #: 682619

Total Target Concentration 100

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 5M123495.D
Analysis Date: 03/17/23 14:57
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 5M123496.D
Analysis Date: 03/17/23 15:20
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 12M66150.D
Analysis Date: 03/17/23 12:57
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 5M123497.D
Analysis Date: 03/17/23 15:44
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	41	207-08-9	Benzo[k]fluoranthene	2.0	100
91-57-6	2-Methylnaphthalene	2.0	100	218-01-9	Chrysene	2.0	98
83-32-9	Acenaphthene	2.0	98	53-70-3	Dibenzo[a,h]anthracene	2.0	100
208-96-8	Acenaphthylene	2.0	95	206-44-0	Fluoranthene	2.0	100
120-12-7	Anthracene	2.0	100	86-73-7	Fluorene	2.0	100
56-55-3	Benzo[a]anthracene	2.0	96	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	98
50-32-8	Benzo[a]pyrene	2.0	110	91-20-3	Naphthalene	0.50	84
205-99-2	Benzo[b]fluoranthene	2.0	110	85-01-8	Phenanthrene	2.0	99
191-24-2	Benzo[g,h,i]perylene	2.0	96	129-00-0	Pyrene	2.0	100

Worksheet #: 682619 *Total Target Concentration* 1700 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-017(MSD:AD
Client Id: VE 1-4 MSD
Data File: 5M123498.D
Analysis Date: 03/17/23 16:07
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	44	207-08-9	Benzo[k]fluoranthene	2.0	110
91-57-6	2-Methylnaphthalene	2.0	100	218-01-9	Chrysene	2.0	93
83-32-9	Acenaphthene	2.0	95	53-70-3	Dibenzo[a,h]anthracene	2.0	97
208-96-8	Acenaphthylene	2.0	92	206-44-0	Fluoranthene	2.0	100
120-12-7	Anthracene	2.0	97	86-73-7	Fluorene	2.0	93
56-55-3	Benzo[a]anthracene	2.0	95	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	94
50-32-8	Benzo[a]pyrene	2.0	100	91-20-3	Naphthalene	0.50	89
205-99-2	Benzo[b]fluoranthene	2.0	100	85-01-8	Phenanthrene	2.0	97
191-24-2	Benzo[g,h,i]perylene	2.0	94	129-00-0	Pyrene	2.0	100

Worksheet #: 682619

Total Target Concentration 1700

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 5M123499.D
Analysis Date: 03/17/23 16:31
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 12M66151.D
Analysis Date: 03/17/23 13:19
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 5M123500.D
Analysis Date: 03/17/23 16:54
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 12M66152.D
Analysis Date: 03/17/23 13:40
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 5M123501.D
Analysis Date: 03/17/23 17:18
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 12M66153.D
Analysis Date: 03/17/23 14:02
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 5M123502.D
Analysis Date: 03/17/23 17:42
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U	207-08-9	Benzo[k]fluoranthene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 682619

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 12M66154.D
Analysis Date: 03/17/23 14:23
Date Rec/Extracted: 03/10/23-03/16/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 682621

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-001
Client Id: DAY-1
Data File: 2G173918.D
Analysis Date: 03/16/23 12:52
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-002(5X)
Client Id: VE 4-9
Data File: 3G145445.D
Analysis Date: 03/22/23 14:11
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 5
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	2.5	U	**11097-69-1**	**Aroclor-1254**	**2.5**	**52**
11104-28-2	Aroclor-1221	2.5	U	11096-82-5	Aroclor-1260	2.5	U
11141-16-5	Aroclor-1232	2.5	U	37324-23-5	Aroclor-1262	2.5	U
53469-21-9	Aroclor-1242	2.5	U	11100-14-4	Aroclor-1268	2.5	U
12672-29-6	Aroclor-1248	2.5	U	**1336-36-3**	**Aroclor (Total)**	**2.5**	**52**

HLC 03/23/23

Worksheet #: 682639 *Total Target Concentration* 52 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-003
Client Id: FA 4-9
Data File: 2G174184.D
Analysis Date: 03/22/23 10:52
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**30**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**30**

dlw
03/23/23

Worksheet #: 682639

Total Target Concentration 30

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-004(5X)
Client Id: VE 4-7
Data File: 2G173930.D
Analysis Date: 03/16/23 15:13
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**(^)Aroclor-1254**	**1.3**	**47**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**47**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-005
Client Id: FA 4-16
Data File: 2G174185.D
Analysis Date: 03/22/23 11:04
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**34**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**34**

dlw
03/22/23

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-006
Client Id: PGW-2
Data File: 2G174186.D
Analysis Date: 03/22/23 11:15
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	**11096-82-5**	**Aroclor-1260**	**0.50**	**4.7**
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**4.7**

Worksheet #: 682637

Total Target Concentration 4.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-007(5X)
Client Id: Oull-A
Data File: 2G173931.D
Analysis Date: 03/16/23 15:29
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 5
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	1.3	U	**11097-69-1**	**Aroclor-1254**	**1.3**	**33**
11104-28-2	Aroclor-1221	1.3	U	11096-82-5	Aroclor-1260	1.3	U
11141-16-5	Aroclor-1232	1.3	U	37324-23-5	Aroclor-1262	1.3	U
53469-21-9	Aroclor-1242	1.3	U	11100-14-4	Aroclor-1268	1.3	U
12672-29-6	Aroclor-1248	1.3	U	**1336-36-3**	**Aroclor (Total)**	**1.3**	**33**

dhc
03/22/23

Worksheet #: 682654 *Total Target Concentration* 33 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-008
Client Id: Oull-B
Data File: 2G173921.D
Analysis Date: 03/16/23 13:28
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	**11097-69-1**	**Aroclor-1254**	**0.50**	**7**
11104-28-2	Aroclor-1221	0.50	U	11096-82-5	Aroclor-1260	0.50	U
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**7.0**

kmc
03/22/23

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-009
Client Id: Ouil-C
Data File: 2G173922.D
Analysis Date: 03/16/23 13:39
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-010
Client Id: Oull-D
Data File: 2G174187.D
Analysis Date: 03/22/23 11:27
Date Rec/Extracted: 03/10/23-03/21/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.50	U	11097-69-1	Aroclor-1254	0.50	U
11104-28-2	Aroclor-1221	0.50	U	**11096-82-5**	**Aroclor-1260**	**0.50**	**2.3**
11141-16-5	Aroclor-1232	0.50	U	37324-23-5	Aroclor-1262	0.50	U
53469-21-9	Aroclor-1242	0.50	U	11100-14-4	Aroclor-1268	0.50	U
12672-29-6	Aroclor-1248	0.50	U	**1336-36-3**	**Aroclor (Total)**	**0.50**	**2.3**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-011
Client Id: OU11-E
Data File: 2G173923.D
Analysis Date: 03/16/23 13:51
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-012
Client Id: OU11-F
Data File: 2G173924.D
Analysis Date: 03/16/23 14:03
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**7.5**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**7.5**

Worksheet #: 682642

Total Target Concentration 7.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-013
Client Id: VE 3-1
Data File: 3G145252.D
Analysis Date: 03/16/23 15:35
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-014
Client Id: VE 1-2
Data File: 2G173926.D
Analysis Date: 03/16/23 14:26
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-015
Client Id: VE 1-4
Data File: 2G173917.D
Analysis Date: 03/16/23 12:41
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-016(MS:AD36
Client Id: VE 1-4 MS
Data File: 2G173915.D
Analysis Date: 03/16/23 12:17
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**6.4**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**(^)Aroclor-1260**	**0.25**	**6.7**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**13**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-017(MSD:AD)
Client Id: VE 1-4 MSD
Data File: 2G173916.D
Analysis Date: 03/16/23 12:29
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.25**	**6.2**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**(^)Aroclor-1260**	**0.25**	**6.4**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**13**

Worksheet #: 682642

Total Target Concentration 6.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-018
Client Id: VE 2-1
Data File: 3G145253.D
Analysis Date: 03/16/23 15:47
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-019
Client Id: VE 4-11
Data File: 3G145254.D
Analysis Date: 03/16/23 15:58
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-020
Client Id: 030923DUP
Data File: 2G174082.D
Analysis Date: 03/20/23 17:42
Date Rec/Extracted: 03/10/23-03/17/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682641

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 2G173929.D
Analysis Date: 03/16/23 15:02
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 682642

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DAY-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	9.4	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7440-47-3	Chromium	2.0	4.9	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		35		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-013	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 3-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	4.9	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	3.0	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	
7439-92-1	Lead	3.0	3.9	1	50	100	03/17/23	1045791	723ANEW	36	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-014	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-2	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc.	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		37		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-015	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7440-47-3	Chromium	2.0	2.3	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7440-50-8	Copper	10	16	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA
7439-92-1	Lead	3.0	6.3	1	50	100	03/17/23	1045791723ANEW		26		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-016	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4 MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	460	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7440-47-3	Chromium	2.0	460	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7440-50-8	Copper	10	470	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA
7439-92-1	Lead	3.0	420	1	50	100	03/17/23	1045791723	ANEW	29		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-017	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 1-4 MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7440-47-3	Chromium	2.0	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7440-50-8	Copper	10	450	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA
7439-92-1	Lead	3.0	410	1	50	100	03/17/23	1045791723ANEW		30		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-018	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 2-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723ANEW		38	MSMS3_7700SWA	

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-019	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	VE 4-11	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791723	ANEW	39	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-021	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	030923 EB	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7440-47-3	Chromium	2.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7440-50-8	Copper	10	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA
7439-92-1	Lead	3.0	ND	1	50	100	03/17/23	1045791	723ANEW	51	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD36716-020	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	030923DUP	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	3/16/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	2.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7440-47-3	Chromium	2.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7440-50-8	Copper	10	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	
7439-92-1	Lead	3.0	ND	1	50	100	03/22/23	1045862123	ANEW	35	MSMS3_7700SWA	

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M165184.D	DAILY BLANK	A	03/14/23 15:50	1		114	101	90	104		
6M165221.D	DAILY BLANK	A	03/15/23 04:26	1		115	104	88	106		
6M165260.D	DAILY BLANK	A	03/15/23 17:43	1		112	106	86	101		
6M165303.D	DAILY BLANK	A	03/16/23 08:22	1		108	105	111	105		
6M165207.D	AD36716-001	A	03/14/23 23:40	1		114	102	91	101		
6M165271.D	AD36716-013	A	03/15/23 21:28	1		110	101	89	97		
6M165267.D	AD36716-014	A	03/15/23 20:07	1		112	110	91	102		
6M165249.D	AD36716-015	A	03/15/23 13:59	1		112	104	90	94		
6M165240.D	AD36716-016(MS:AD36	A	03/15/23 10:54	1		100	93	94	107		
6M165241.D	AD36716-017(MSD:AD3	A	03/15/23 11:14	1		100	94	79	104		
6M165268.D	AD36716-018	A	03/15/23 20:27	1		113	102	93	97		
6M165269.D	AD36716-019	A	03/15/23 20:47	1		115	103	90	112		
6M165270.D	AD36716-020	A	03/15/23 21:08	1		111	99	89	112		
6M165318.D	AD36716-021	A	03/16/23 13:28	1		110	101	85	106		
6M165319.D	AD36716-022	A	03/16/23 13:48	1		112	103	87	107		
6M165186.D	AD36652-009	A	03/14/23 16:30	1		111	103	89	105		
6M165187.D	MBS107539	A	03/14/23 16:51	1		131	100	96	105		
6M165191.D	AD36652-012(MS:AD36	A	03/14/23 18:13	1		102	93	80	106		
6M165192.D	AD36652-013(MSD:AD3	A	03/14/23 18:33	1		100	91	96	105		
6M165229.D	MBS107544	A	03/15/23 07:09	1		106	91	97	96		
6M165272.D	AD36698-021(50X)(T)	A	03/15/23 21:49	1		99	97	96	106		
6M165285.D	MBS107552	A	03/16/23 02:14	1		103	91	93	108		
6M165286.D	AD36698-021(50X)(T:M	A	03/16/23 02:35	1		109	92	90	104		
6M165287.D	AD36698-021(50X)(T:M	A	03/16/23 02:56	1		107	95	89	104		
6M165313.D	MBS107558	A	03/16/23 11:46	1		101	94	94	106		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165229.D	MBS107544	3/15/2023 7:09:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.3975	0	20	72	50	150
Dichlorodifluoromethane	1	6.6241	0	20	33*	50	150
Chloromethane	1	10.2612	0	20	51	50	150
Bromomethane	1	18.1595	0	20	91	50	150
Vinyl Chloride	1	14.5793	0	20	73	50	150
Chloroethane	1	19.7635	0	20	99	50	150
Trichlorofluoromethane	1	21.5473	0	20	108	50	150
Ethyl ether	1	22.2559	0	20	111	50	150
Furan	1	23.2469	0	20	116	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.1563	0	20	161*	50	150
Methylene Chloride	1	16.1192	0	20	81	70	130
Acrolein	1	175.8832	0	100	176*	50	150
Acrylonitrile	1	26.3947	0	20	132	50	150
Iodomethane	1	10.52	0	20	53	50	150
Acetone	1	118.3247	0	100	118	50	150
Carbon Disulfide	1	14.8928	0	20	74	50	150
t-Butyl Alcohol	1	163.3593	0	100	163*	50	150
n-Hexane	1	28.6982	0	20	143*	70	130
Di-isopropyl-ether	1	30.267	0	20	151*	70	130
1,1-Dichloroethene	1	15.6548	0	20	78	70	130
Methyl Acetate	1	21.4558	0	20	107	50	150
Methyl-t-butyl ether	**1**	**32.7342**	**0**	**20**	**164***	**70**	**130**
1,1-Dichloroethane	1	15.7757	0	20	79	70	130
trans-1,2-Dichloroethene	1	17.076	0	20	85	70	130
Ethyl-t-butyl ether	1	16.3869	0	20	82	70	130
cis-1,2-Dichloroethene	1	16.0706	0	20	80	70	130
Bromochloromethane	1	15.0441	0	20	75	70	130
2,2-Dichloropropane	1	16.8812	0	20	84	70	130
Ethyl acetate	1	13.2934	0	20	66	50	150
1,4-Dioxane	1	1975.576	0	1000	198*	50	150
1,1-Dichloropropene	1	17.9222	0	20	90	70	130
Chloroform	1	17.3594	0	20	87	70	130
Cyclohexane	1	32.1782	0	20	161*	70	130
1,2-Dichloroethane	1	16.8988	0	20	84	70	130
2-Butanone	1	16.6036	0	20	83	50	150
1,1,1-Trichloroethane	1	18.3368	0	20	92	70	130
Carbon Tetrachloride	1	18.8395	0	20	94	50	150
Vinyl Acetate	1	22.9765	0	20	115	50	150
Bromodichloromethane	1	17.4585	0	20	87	70	130
Methylcyclohexane	1	33.9793	0	20	170*	70	130
Dibromomethane	1	18.5642	0	20	93	70	130
1,2-Dichloropropane	1	16.658	0	20	83	70	130
Trichloroethene	1	18.85	0	20	94	70	130
Benzene	**1**	**17.5962**	**0**	**20**	**88**	**70**	**130**
tert-Amyl methyl ether	1	17.2067	0	20	86	70	130
Iso-propylacetate	1	12.6797	0	20	63*	70	130
Methyl methacrylate	1	13.7796	0	20	69*	70	130
Dibromochloromethane	1	16.3542	0	20	82	70	130
2-Chloroethylvinylether	1	13.1114	0	20	66*	70	130
cis-1,3-Dichloropropene	1	14.7639	0	20	74	70	130
trans-1,3-Dichloropropene	1	14.9852	0	20	75	70	130
Ethyl methacrylate	1	13.568	0	20	68*	70	130
1,1,2-Trichloroethane	1	15.3028	0	20	77	70	130
1,2-Dibromoethane	1	15.0608	0	20	75	70	130
1,3-Dichloropropane	1	14.5106	0	20	73	70	130
4-Methyl-2-Pentanone	1	12.393	0	20	62	50	150
2-Hexanone	1	12.101	0	20	61	50	150
Tetrachloroethene	1	17.4924	0	20	87	50	150
Toluene	**1**	**16.1222**	**0**	**20**	**81**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.051	0	20	85	70	130
Chlorobenzene	**1**	**16.7393**	**0**	**20**	**84**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	12.2298	0	20	61*	70	130
n-Amyl acetate	1	10.599	0	20	53*	70	130
Bromoform	1	13.8188	0	20	69*	70	130
Ethylbenzene	**1**	**12.4287**	**0**	**20**	**62***	**70**	**130**
1,1,2,2-Tetrachloroethane	1	13.1687	0	20	66*	70	130
Styrene	1	14.8433	0	20	74	70	130
m&p-Xylenes	**1**	**25.9764**	**0**	**40**	**65***	**70**	**130**
o-Xylene	**1**	**14.8283**	**0**	**20**	**74**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	23.9879	0	20	120	50	150
1,3-Dichlorobenzene	1	16.0787	0	20	80	70	130
1,4-Dichlorobenzene	1	16.1492	0	20	81	70	130
1,2-Dichlorobenzene	1	15.8058	0	20	79	70	130
Isopropylbenzene	**1**	**15.3864**	**0**	**20**	**77**	**70**	**130**
Cyclohexanone	1	129.8696	0	100	130	50	150
Camphene	1	16.5091	0	20	83	70	130
1,2,3-Trichloropropane	1	16.6952	0	20	83	70	130
2-Chlorotoluene	1	15.3073	0	20	77	70	130
p-Ethyltoluene	1	15.479	0	20	77	70	130
4-Chlorotoluene	1	15.5731	0	20	78	70	130
n-Propylbenzene	**1**	**16.4029**	**0**	**20**	**82**	**70**	**130**
Bromobenzene	1	15.5651	0	20	78	70	130
1,3,5-Trimethylbenzene	**1**	**16.009**	**0**	**20**	**80**	**70**	**130**
Butyl methacrylate	1	13.9094	0	20	70	70	130
t-Butylbenzene	**1**	**16.9045**	**0**	**20**	**85**	**70**	**130**
1,2,4-Trimethylbenzene	**1**	**16.6028**	**0**	**20**	**83**	**70**	**130**
sec-Butylbenzene	**1**	**17.7175**	**0**	**20**	**89**	**70**	**130**
4-Isopropyltoluene	**1**	**16.9583**	**0**	**20**	**85**	**70**	**130**
n-Butylbenzene	**1**	**16.805**	**0**	**20**	**84**	**70**	**130**
p-Diethylbenzene	1	11.8075	0	20	59*	70	130
1,2,4,5-Tetramethylbenzene	1	13.6476	0	20	68*	70	130
1,2-Dibromo-3-Chloropropane	1	12.6137	0	20	63	50	150
Camphor	1	110.4953	0	200	55	20	150
Hexachlorobutadiene	1	13.2584	0	20	66	50	150
1,2,4-Trichlorobenzene	1	12.5214	0	20	63*	70	130
1,2,3-Trichlorobenzene	1	12.1636	0	20	61*	70	130
Naphthalene	**1**	**8.7893**	**0**	**20**	**44***	**50**	**150**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107552

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.3791	0	20	82	70	130
n-Amyl acetate	1	13.5355	0	20	68*	70	130
Bromoform	1	18.8094	0	20	94	70	130
Ethylbenzene	**1**	**19.2521**	**0**	**20**	**96**	**70**	**130**
1,1,2,2-Tetrachloroethane	1	15.8221	0	20	79	70	130
Styrene	1	20.7394	0	20	104	70	130
m&p-Xylenes	**1**	**42.0353**	**0**	**40**	**105**	**70**	**130**
o-Xylene	**1**	**19.7631**	**0**	**20**	**99**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	17.0738	0	20	85	50	150
1,3-Dichlorobenzene	1	19.3352	0	20	97	70	130
1,4-Dichlorobenzene	1	19.768	0	20	99	70	130
1,2-Dichlorobenzene	1	18.8267	0	20	94	70	130
Isopropylbenzene	**1**	**20.5301**	**0**	**20**	**103**	**70**	**130**
Cyclohexanone	1	525.8372	0	100	526*	50	150
Camphene	1	20.3189	0	20	102	70	130
1,2,3-Trichloropropane	1	15.6934	0	20	78	70	130
2-Chlorotoluene	1	21.0741	0	20	105	70	130
p-Ethyltoluene	1	51.0875	0	20	255*	70	130
4-Chlorotoluene	1	19.2049	0	20	96	70	130
n-Propylbenzene	**1**	**20.1412**	**0**	**20**	**101**	**70**	**130**
Bromobenzene	1	17.6731	0	20	88	70	130
1,3,5-Trimethylbenzene	**1**	**76.5656**	**0**	**20**	**383***	**70**	**130**
Butyl methacrylate	1	16.0338	0	20	80	70	130
t-Butylbenzene	**1**	**20.5706**	**0**	**20**	**103**	**70**	**130**
1,2,4-Trimethylbenzene	**1**	**21.5783**	**0**	**20**	**108**	**70**	**130**
sec-Butylbenzene	**1**	**20.8948**	**0**	**20**	**104**	**70**	**130**
4-Isopropyltoluene	**1**	**21.4926**	**0**	**20**	**107**	**70**	**130**
n-Butylbenzene	**1**	**25.5512**	**0**	**20**	**128**	**70**	**130**
p-Diethylbenzene	1	41.9495	0	20	210*	70	130
1,2,4,5-Tetramethylbenzene	1	76.5664	0	20	383*	70	130
1,2-Dibromo-3-Chloropropane	1	16.7162	0	20	84	50	150
Camphor	1	197.4855	0	200	99	20	150
Hexachlorobutadiene	1	20.4221	0	20	102	50	150
1,2,4-Trichlorobenzene	1	19.5486	0	20	98	70	130
1,2,3-Trichlorobenzene	1	19.2896	0	20	96	70	130
Naphthalene	**1**	**14.9838**	**0**	**20**	**75**	**50**	**150**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165240.D	AD36716-016(MS:AD36716-015	3/15/2023 10:54:00 AM
Non Spike(If applicable):	6M165249.D	AD36716-015	3/15/2023 1:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.6035	0	20	58	50	150
Dichlorodifluoromethane	1	4.1957	0	20	21*	50	150
Chloromethane	1	9.1034	0	20	46*	50	150
Bromomethane	1	15.294	0	20	76	50	150
Vinyl Chloride	1	12.252	0	20	61	50	150
Chloroethane	1	14.8368	0	20	74	50	150
Trichlorofluoromethane	1	18.1046	0	20	91	50	150
Ethyl ether	1	20.0645	0	20	100	50	150
Furan	1	20.1708	0	20	101	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	31.7614	0	20	159*	50	150
Methylene Chloride	1	13.9181	0	20	70	70	130
Acrolein	1	168.1862	0	100	168*	50	150
Acrylonitrile	1	22.6595	0	20	113	50	150
Iodomethane	1	10.0387	0	20	50	50	150
Acetone	1	119.1982	0	100	119	50	150
Carbon Disulfide	1	13.1789	0	20	66	50	150
t-Butyl Alcohol	1	192.3124	0	100	192*	50	150
n-Hexane	1	23.1827	0	20	116	70	130
Di-isopropyl-ether	1	26.1297	0	20	131*	70	130
1,1-Dichloroethene	1	14.7844	0	20	74	70	130
Methyl Acetate	1	21.148	0	20	106	50	150
Methyl-t-butyl ether	**1**	**29.3749**	**0**	**20**	**147***	**70**	**130**
1,1-Dichloroethane	1	13.9648	0	20	70	70	130
trans-1,2-Dichloroethene	1	14.5114	0	20	73	70	130
Ethyl-t-butyl ether	1	14.8595	0	20	74	70	130
cis-1,2-Dichloroethene	1	13.2246	0	20	66*	70	130
Bromochloromethane	1	12.9272	0	20	65*	70	130
2,2-Dichloropropane	1	13.865	0	20	69*	70	130
Ethyl acetate	1	10.5179	0	20	53	50	150
1,4-Dioxane	1	2861.114	0	1000	286*	50	150
1,1-Dichloropropene	1	14.8193	0	20	74	70	130
Chloroform	1	14.5189	0	20	73	70	130
Cyclohexane	1	27.6507	0	20	138*	70	130
1,2-Dichloroethane	1	14.5035	0	20	73	70	130
2-Butanone	1	16.2886	0	20	81	50	150
1,1,1-Trichloroethane	1	15.3653	0	20	77	70	130
Carbon Tetrachloride	1	16.0317	0	20	80	50	150
Vinyl Acetate	1	20.8191	0	20	104	50	150
Bromodichloromethane	1	14.4888	0	20	72	70	130
Methylcyclohexane	1	27.0932	0	20	135*	70	130
Dibromomethane	1	15.6668	0	20	78	70	130
1,2-Dichloropropane	1	13.9881	0	20	70	70	130
Trichloroethene	1	15.5814	0	20	78	70	130
Benzene	**1**	**15.1227**	**0**	**20**	**76**	**70**	**130**
tert-Amyl methyl ether	1	14.9574	0	20	75	70	130
Iso-propylacetate	1	12.3228	0	20	62*	70	130
Methyl methacrylate	1	11.6766	0	20	58*	70	130
Dibromochloromethane	1	13.4965	0	20	67*	70	130
2-Chloroethylvinylether	1	11.0386	0	20	55*	70	130
cis-1,3-Dichloropropene	1	12.1886	0	20	61*	70	130
trans-1,3-Dichloropropene	1	12.4407	0	20	62*	70	130
Ethyl methacrylate	1	12.6236	0	20	63*	70	130
1,1,2-Trichloroethane	1	13.1534	0	20	66*	70	130
1,2-Dibromoethane	1	13.1559	0	20	66*	70	130
1,3-Dichloropropane	1	12.407	0	20	62*	70	130
4-Methyl-2-Pentanone	1	12.0822	0	20	60	50	150
2-Hexanone	1	12.5599	0	20	63	50	150
Tetrachloroethene	1	14.4092	0	20	72	50	150
Toluene	**1**	**13.6016**	**0**	**20**	**68***	**70**	**130**
1,1,1,2-Tetrachloroethane	1	14.1356	0	20	71	70	130
Chlorobenzene	**1**	**13.862**	**0**	**20**	**69***	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS107544

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M165241.D	AD36716-017(MSD:AD36716-0	3/15/2023 11:14:00 AM
Non Spike(If applicable):	6M165249.D	AD36716-015	3/15/2023 1:59:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.2374	0	20	71	50	150
Dichlorodifluoromethane	1	6.1724	0	20	31*	50	150
Chloromethane	1	11.4594	0	20	57	50	150
Bromomethane	1	18.0707	0	20	90	50	150
Vinyl Chloride	1	15.7349	0	20	79	50	150
Chloroethane	1	20.2381	0	20	101	50	150
Trichlorofluoromethane	1	20.8242	0	20	104	50	150
Ethyl ether	1	22.0086	0	20	110	50	150
Furan	1	19.3822	0	20	97	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.8635	0	20	164*	50	150
Methylene Chloride	1	17.3547	0	20	87	70	130
Acrolein	1	130.2965	0	100	130	50	150
Acrylonitrile	1	27.9639	0	20	140	50	150
Iodomethane	1	13.9991	0	20	70	50	150
Acetone	1	136.1676	0	100	136	50	150
Carbon Disulfide	1	15.757	0	20	79	50	150
t-Butyl Alcohol	1	217.5669	0	100	218*	50	150
n-Hexane	1	27.5738	0	20	138*	70	130
Di-isopropyl-ether	1	32.4273	0	20	162*	70	130
1,1-Dichloroethene	1	16.1662	0	20	81	70	130
Methyl Acetate	1	25.104	0	20	126	50	150
Methyl-t-butyl ether	**1**	**35.6281**	**0**	**20**	**178***	**70**	**130**
1,1-Dichloroethane	1	16.5414	0	20	83	70	130
trans-1,2-Dichloroethene	1	18.0203	0	20	90	70	130
Ethyl-t-butyl ether	1	18.3055	0	20	92	70	130
cis-1,2-Dichloroethene	1	16.354	0	20	82	70	130
Bromochloromethane	1	15.6474	0	20	78	70	130
2,2-Dichloropropane	1	16.3989	0	20	82	70	130
Ethyl acetate	1	13.1581	0	20	66	50	150
1,4-Dioxane	1	2837.656	0	1000	284*	50	150
1,1-Dichloropropene	1	17.7191	0	20	89	70	130
Chloroform	1	17.735	0	20	89	70	130
Cyclohexane	1	32.5525	0	20	163*	70	130
1,2-Dichloroethane	1	17.2424	0	20	86	70	130
2-Butanone	1	17.847	0	20	89	50	150
1,1,1-Trichloroethane	1	18.8334	0	20	94	70	130
Carbon Tetrachloride	1	19.1762	0	20	96	50	150
Vinyl Acetate	1	25.3452	0	20	127	50	150
Bromodichloromethane	1	18.1035	0	20	91	70	130
Methylcyclohexane	1	32.9319	0	20	165*	70	130
Dibromomethane	1	19.7523	0	20	99	70	130
1,2-Dichloropropane	1	17.295	0	20	86	70	130
Trichloroethene	1	19.3559	0	20	97	70	130
Benzene	**1**	**18.7052**	**0**	**20**	**94**	**70**	**130**
tert-Amyl methyl ether	1	18.2643	0	20	91	70	130
Iso-propylacetate	1	12.5492	0	20	63*	70	130
Methyl methacrylate	1	12.1399	0	20	61*	70	130
Dibromochloromethane	1	14.4615	0	20	72	70	130
2-Chloroethylvinylether	1	12.1315	0	20	61*	70	130
cis-1,3-Dichloropropene	1	13.3784	0	20	67*	70	130
trans-1,3-Dichloropropene	1	13.2302	0	20	66*	70	130
Ethyl methacrylate	1	13.172	0	20	66*	70	130
1,1,2-Trichloroethane	1	13.7055	0	20	69*	70	130
1,2-Dibromoethane	1	13.9032	0	20	70	70	130
1,3-Dichloropropane	1	13.2052	0	20	66*	70	130
4-Methyl-2-Pentanone	1	12.9983	0	20	65	50	150
2-Hexanone	1	12.7697	0	20	64	50	150
Tetrachloroethene	1	15.2598	0	20	76	50	150
Toluene	**1**	**14.3538**	**0**	**20**	**72**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.752	0	20	89	70	130
Chlorobenzene	**1**	**18.8148**	**0**	**20**	**94**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165218.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 3:25:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	12.60	20	20		0.198	0.125	37.01	C1
cis-1,3-Dichloropropene	1	0		5.82	12.74	20	20	0.2	0.724	0.461	36.28	C1
trans-1,3-Dichloropropene	1	0		6.10	12.97	20	20	0.1	0.611	0.396	35.17	C1
Ethyl methacrylate	1	0		6.12	11.93	20	20	0.5	0.302	0.180	40.34	C1
1,1,2-Trichloroethane	1	0		6.21	16.02	20	20	0.1	0.460	0.368	19.92	
1,2-Dibromoethane	1	0		6.51	16.33	20	20	0.1	0.472	0.385	18.34	
1,3-Dichloropropane	1	0		6.31	16.55	20	20		0.743	0.615	17.23	
4-Methyl-2-Pentanone	1	0		5.89	12.50	20	20	0.1	0.293	0.183	37.49	C1
2-Hexanone	1	0		6.32	16.63	20	20	0.1	0.192	0.160	16.86	
Tetrachloroethene	1	0		6.31	17.43	20	20	0.2	0.426	0.371	12.84	
Toluene-d8	1	0	S	5.98	22.92	30	**		1.126	0.861	23.60	
Toluene	1	0		6.01	14.03	20	20	0.4	1.154	0.809	29.87	C1
1,1,1,2-Tetrachloroethane	1	0		6.80	17.70	20	20		0.485	0.430	11.49	
Chlorobenzene	1	0		6.77	17.38	20	20	0.5	1.315	1.142	13.10	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	16.30	20	20	0.5	1.289	1.051	18.49	
n-Amyl acetate	1	0		7.13	17.20	20	20	0.5	1.030	1.052	13.99	
Bromoform	1	0		7.22	17.60	20	20	0.1	0.701	0.617	11.98	
Ethylbenzene	1	0		6.81	18.68	20	20	0.1	0.971	0.907	6.59	
1,1,2,2-Tetrachloroethane	1	0		7.43	16.89	20	20	0.1	1.053	0.889	15.57	
Bromofluorobenzene	1	0	S	7.38	32.70	30	**		0.757	0.825	9.00	
Styrene	1	0		7.09	18.37	20	20	0.3	2.303	2.116	8.13	
m&p-Xylenes	1	0		6.87	38.87	40	20	0.1	1.336	1.298	2.82	
o-Xylene	1	0		7.09	17.87	20	20	0.3	1.439	1.286	10.66	
trans-1,4-Dichloro-2-butene	1	0		7.46	16.35	20	20		0.293	0.239	18.26	
1,3-Dichlorobenzene	1	0		8.01	17.80	20	20	0.6	1.818	1.618	10.98	
1,4-Dichlorobenzene	1	0		8.06	16.99	20	20	0.5	1.833	1.557	15.05	
1,2-Dichlorobenzene	1	0		8.28	14.90	20	20	0.4	1.739	1.296	25.49	C1
Isopropylbenzene	1	0		7.28	19.07	20	20	0.1	3.325	3.170	4.66	
Cyclohexanone	1	0		7.35	115.87	100	20		0.008	0.007	15.87	
Camphene	1	0		7.46	17.93	20	20		0.828	0.743	10.36	
1,2,3-Trichloropropane	1	0		7.47	17.65	20	20		1.173	1.035	11.75	
2-Chlorotoluene	1	0		7.58	19.37	20	20		2.119	2.052	3.17	
p-Ethyltoluene	1	0		7.57	18.01	20	20		3.491	3.144	9.94	
4-Chlorotoluene	1	0		7.63	18.13	20	20		2.076	1.881	9.37	
n-Propylbenzene	1	0		7.51	20.29	20	20		3.757	3.813	1.46	
Bromobenzene	1	0		7.48	18.64	20	20		2.054	1.914	6.81	
1,3,5-Trimethylbenzene	1	0		7.60	18.25	20	20		2.329	2.125	8.77	
Butyl methacrylate	1	0		7.60	16.10	20	20	0.5	0.764	0.615	19.49	
t-Butylbenzene	1	0		7.79	18.15	20	20		2.588	2.349	9.26	
1,2,4-Trimethylbenzene	1	0		7.82	18.43	20	20		2.527	2.328	7.86	
sec-Butylbenzene	1	0		7.92	20.96	20	20		3.047	3.193	4.82	
4-Isopropyltoluene	1	0		7.99	18.59	20	20		2.558	2.377	7.04	
n-Butylbenzene	1	0		8.23	14.34	20	20		2.616	1.875	28.31	C1
p-Diethylbenzene	1	0		8.21	11.23	20	20		1.517	1.092	43.83	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	16.06	20	20		1.406	1.129	19.69	
1,2-Dibromo-3-Chloropropane	1	0		8.73	14.64	20	20	0.05	0.225	0.165	26.81	C1
Camphor	1	0		9.16	181.74	200	20		0.054	0.044	9.13	
Hexachlorobutadiene	1	0		9.31	15.97	20	20		0.348	0.278	20.13	
1,2,4-Trichlorobenzene	1	0		9.23	16.16	20	20	0.2	0.891	0.720	19.20	
1,2,3-Trichlorobenzene	1	0		9.52	15.38	20	20		0.753	0.579	23.12	C1
Naphthalene	1	0		9.38	11.67	20	20		1.954	1.385	41.67	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165256.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 4:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.65	12.32	20	20	0.1	0.425	0.262	38.41	C1
Dichlorodifluoromethane	1	0		1.64	7.91	20	20	0.1	0.171	0.068	60.45	C1
Chloromethane	1	0		1.82	16.16	20	20	0.1	0.284	0.229	19.22	
Bromomethane	1	0		2.23	16.68	20	20	0.1	0.281	0.235	16.59	
Vinyl Chloride	1	0		1.92	17.84	20	20	0.1	0.359	0.321	10.78	
Chloroethane	1	0		2.32	17.87	20	20	0.1	0.253	0.226	10.63	
Trichlorofluoromethane	1	0		2.56	20.55	20	20	0.1	0.532	0.547	2.73	
Ethyl ether	1	0		2.80	17.48	20	20	0.5	0.336	0.294	12.61	
Furan	1	0		2.84	17.75	20	20	0.5	0.475	0.422	11.24	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.01	35.09	20	20	0.1	0.338	0.593	75.43	C1
Methylene Chloride	1	0		3.42	16.63	20	20	0.1	0.425	0.353	16.87	
Acrolein	1	0		2.91	117.59	100	20		0.049	0.058	17.59	
Acrylonitrile	1	0		3.62	23.96	20	20		0.123	0.147	19.78	
Iodomethane	1	0		3.15	10.98	20	20		0.520	0.285	45.11	C1
Acetone	1	0		3.04	140.97	100	20	0.1	0.062	0.087	40.97	C1
Carbon Disulfide	1	0		3.23	16.04	20	20	0.1	1.043	0.837	19.78	
t-Butyl Alcohol	1	0		3.49	193.03	100	20		0.015	0.029	93.03	C1
n-Hexane	1	0		3.90	34.36	20	20		0.332	0.571	71.78	C1
Di-isopropyl-ether	1	0		4.06	31.45	20	20		0.968	1.522	57.24	C1
1,1-Dichloroethene	1	0		3.01	16.37	20	20	0.1	0.489	0.400	18.15	
Methyl Acetate	1	0		3.32	23.59	20	20	0.1	0.266	0.314	17.94	
Methyl-t-butyl ether	1	0		3.66	34.43	20	20	0.1	0.916	1.577	72.16	C1
1,1-Dichloroethane	1	0		4.01	16.14	20	20	0.2	0.650	0.525	19.30	
trans-1,2-Dichloroethene	1	0		3.67	17.16	20	20	0.1	0.417	0.358	14.23	
Ethyl-t-butyl ether	1	0		4.32	17.48	20	20	0.5	0.890	0.778	12.58	
cis-1,2-Dichloroethene	1	0		4.43	16.97	20	20	0.1	0.587	0.498	15.14	
Bromochloromethane	1	0		4.58	18.00	20	20		0.280	0.252	9.99	
2,2-Dichloropropane	1	0		4.43	20.90	20	20		0.405	0.423	4.48	
Ethyl acetate	1	0		4.45	16.81	20	20		0.301	0.253	15.94	
1,4-Dioxane	1	0		5.51	2399.59	1000	20		0.001	0.002	139.96	C1
1,1-Dichloropropene	1	0		4.84	18.13	20	20		0.496	0.449	9.33	
Chloroform	1	0		4.62	17.28	20	20	0.2	0.697	0.602	13.61	
Dibromofluoromethane	1	0	S	4.72	28.75	30	**		0.286	0.274	4.16	
Cyclohexane	1	0		4.79	34.20	20	20	0.1	0.470	0.803	70.98	C1
1,2-Dichloroethane-d4	1	0	S	4.92	25.61	30	**		0.131	0.112	14.64	
1,2-Dichloroethane	1	0		4.96	17.77	20	20	0.1	0.442	0.393	11.15	
2-Butanone	1	0		4.42	20.78	20	20	0.1	0.106	0.110	3.90	
1,1,1-Trichloroethane	1	0		4.75	19.03	20	20	0.1	0.580	0.552	4.83	
Carbon Tetrachloride	1	0		4.85	19.59	20	20	0.1	0.528	0.517	2.04	
Vinyl Acetate	1	0		4.05	23.90	20	20		0.787	0.941	19.52	
Bromodichloromethane	1	0		5.58	21.03	20	20	0.2	0.536	0.563	5.16	
Methylcyclohexane	1	0		5.44	34.51	20	20	0.1	0.497	0.858	72.53	C1
Dibromomethane	1	0		5.51	22.17	20	20		0.312	0.346	10.83	
1,2-Dichloropropane	1	0		5.45	16.10	20	20	0.1	0.390	0.314	19.50	
Trichloroethene	1	0		5.32	19.10	20	20	0.2	0.467	0.446	4.51	
Benzene	1	0		4.97	18.11	20	20	0.5	1.527	1.383	9.43	
tert-Amyl methyl ether	1	0		5.01	18.11	20	20		0.903	0.818	9.44	
Chlorobenzene-d5	1	0	I	6.75	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	12.44	20	20	0.5	0.613	0.381	37.82	C1
Methyl methacrylate	1	0		5.47	18.99	20	20	0.5	0.282	0.268	5.03	
Dibromochloromethane	1	0		6.43	16.98	20	20	0.1	0.561	0.477	15.09	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165256.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/15/2023 4:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	15.19	20	20		0.198	0.150	24.05	C1
cis-1,3-Dichloropropene	1	0		5.82	16.20	20	20	0.2	0.724	0.586	19.02	
trans-1,3-Dichloropropene	1	0		6.10	16.46	20	20	0.1	0.611	0.503	17.68	
Ethyl methacrylate	1	0		6.12	16.78	20	20	0.5	0.302	0.253	16.09	
1,1,2-Trichloroethane	1	0		6.21	16.25	20	20	0.1	0.460	0.374	18.73	
1,2-Dibromoethane	1	0		6.51	16.60	20	20	0.1	0.472	0.392	17.00	
1,3-Dichloropropane	1	0		6.31	16.23	20	20		0.743	0.603	18.87	
4-Methyl-2-Pentanone	1	0		5.89	16.66	20	20	0.1	0.293	0.244	16.71	
2-Hexanone	1	0		6.32	16.90	20	20	0.1	0.192	0.162	15.50	
Tetrachloroethene	1	0		6.31	17.65	20	20	0.2	0.426	0.376	11.73	
Toluene-d8	1	0	S	5.98	27.07	30	**		1.126	1.017	9.75	
Toluene	1	0		6.01	16.23	20	20	0.4	1.154	0.936	18.87	
1,1,1,2-Tetrachloroethane	1	0		6.80	17.24	20	20		0.485	0.418	13.80	
Chlorobenzene	1	0		6.77	17.83	20	20	0.5	1.315	1.172	10.85	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	17.55	20	20	0.5	1.289	1.131	12.25	
n-Amyl acetate	1	0		7.12	16.26	20	20	0.5	1.030	0.994	18.72	
Bromoform	1	0		7.21	17.14	20	20	0.1	0.701	0.601	14.28	
Ethylbenzene	1	0		6.81	15.75	20	20	0.1	0.971	0.765	21.27	C1
1,1,2,2-Tetrachloroethane	1	0		7.43	16.00	20	20	0.1	1.053	0.842	20.01	
Bromofluorobenzene	1	0	S	7.38	31.13	30	**		0.757	0.786	3.78	
Styrene	1	0		7.09	18.78	20	20	0.3	2.303	2.163	6.11	
m&p-Xylenes	1	0		6.87	35.78	40	20	0.1	1.336	1.195	10.55	
o-Xylene	1	0		7.09	18.88	20	20	0.3	1.439	1.358	5.61	
trans-1,4-Dichloro-2-butene	1	0		7.46	23.36	20	20		0.293	0.342	16.80	
1,3-Dichlorobenzene	1	0		8.01	16.65	20	20	0.6	1.818	1.513	16.75	
1,4-Dichlorobenzene	1	0		8.06	18.62	20	20	0.5	1.833	1.707	6.91	
1,2-Dichlorobenzene	1	0		8.28	16.54	20	20	0.4	1.739	1.438	17.32	
Isopropylbenzene	1	0		7.28	18.40	20	20	0.1	3.325	3.059	7.99	
Cyclohexanone	1	0		7.35	226.67	100	20		0.008	0.014	126.67	C1
Camphene	1	0		7.46	17.79	20	20		0.828	0.737	11.07	
1,2,3-Trichloropropane	1	0		7.47	19.23	20	20		1.173	1.128	3.83	
2-Chlorotoluene	1	0		7.58	16.83	20	20		2.119	1.783	15.84	
p-Ethyltoluene	1	0		7.57	17.35	20	20		3.491	3.028	13.26	
4-Chlorotoluene	1	0		7.63	16.73	20	20		2.076	1.736	16.37	
n-Propylbenzene	1	0		7.51	17.55	20	20		3.757	3.297	12.25	
Bromobenzene	1	0		7.48	17.07	20	20		2.054	1.754	14.63	
1,3,5-Trimethylbenzene	1	0		7.60	17.45	20	20		2.329	2.033	12.74	
Butyl methacrylate	1	0		7.60	16.48	20	20	0.5	0.764	0.630	17.58	
t-Butylbenzene	1	0		7.79	17.32	20	20		2.588	2.242	13.39	
1,2,4-Trimethylbenzene	1	0		7.82	17.25	20	20		2.527	2.179	13.77	
sec-Butylbenzene	1	0		7.92	17.60	20	20		3.047	2.681	12.00	
4-Isopropyltoluene	1	0		7.99	17.08	20	20		2.558	2.184	14.61	
n-Butylbenzene	1	0		8.23	17.56	20	20		2.616	2.296	12.23	
p-Diethylbenzene	1	0		8.21	13.40	20	20		1.517	1.302	33.01	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	17.50	20	20		1.406	1.230	12.52	
1,2-Dibromo-3-Chloropropane	1	0		8.73	16.16	20	20	0.05	0.225	0.182	19.19	
Camphor	1	0		9.16	191.01	200	20		0.054	0.047	4.49	
Hexachlorobutadiene	1	0		9.31	18.20	20	20		0.348	0.317	9.01	
1,2,4-Trichlorobenzene	1	0		9.23	16.91	20	20	0.2	0.891	0.753	15.47	
1,2,3-Trichlorobenzene	1	0		9.52	15.83	20	20		0.753	0.596	20.85	C1
Naphthalene	1	0		9.38	11.87	20	20		1.954	1.409	40.66	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165299.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/16/2023 7:00:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.65	11.56	20	20	0.1	0.425	0.246	42.18	C1
Dichlorodifluoromethane	1	0		1.64	7.11	20	20	0.1	0.171	0.061	64.44	C1
Chloromethane	1	0		1.82	9.37	20	20	0.1	0.284	0.133	53.16	C1
Bromomethane	1	0		2.23	16.12	20	20	0.1	0.281	0.227	19.39	
Vinyl Chloride	1	0		1.92	17.72	20	20	0.1	0.359	0.318	11.41	
Chloroethane	1	0		2.32	16.04	20	20	0.1	0.253	0.203	19.80	
Trichlorofluoromethane	1	0		2.55	20.17	20	20	0.1	0.532	0.537	0.85	
Ethyl ether	1	0		2.80	23.23	20	20	0.5	0.336	0.390	16.16	
Furan	1	0		2.84	21.66	20	20	0.5	0.475	0.515	8.31	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.01	46.03	20	20	0.1	0.338	0.778	130.13	C1
Methylene Chloride	1	0		3.42	16.24	20	20	0.1	0.425	0.345	18.82	
Acrolein	1	0		2.91	139.65	100	20		0.049	0.069	39.65	C1
Acrylonitrile	1	0		3.62	23.92	20	20		0.123	0.147	19.61	
Iodomethane	1	0		3.16	16.33	20	20		0.520	0.424	18.37	
Acetone	1	0		3.04	192.59	100	20	0.1	0.062	0.119	92.59	C1
Carbon Disulfide	1	0		3.23	20.55	20	20	0.1	1.043	1.072	2.77	
t-Butyl Alcohol	1	0		3.49	198.30	100	20		0.015	0.030	98.30	C1
n-Hexane	1	0		3.90	29.66	20	20		0.332	0.493	48.31	C1
Di-isopropyl-ether	1	0		4.06	30.98	20	20		0.968	1.499	54.92	C1
1,1-Dichloroethene	1	0		3.01	21.84	20	20	0.1	0.489	0.534	9.18	
Methyl Acetate	1	0		3.32	29.25	20	20	0.1	0.266	0.389	46.23	C1
Methyl-t-butyl ether	1	0		3.66	34.67	20	20	0.1	0.916	1.588	73.35	C1
1,1-Dichloroethane	1	0		4.01	15.96	20	20	0.2	0.650	0.519	20.21	
trans-1,2-Dichloroethene	1	0		3.67	16.27	20	20	0.1	0.417	0.339	18.63	
Ethyl-t-butyl ether	1	0		4.32	17.43	20	20	0.5	0.890	0.776	12.87	
cis-1,2-Dichloroethene	1	0		4.43	16.15	20	20	0.1	0.587	0.474	19.27	
Bromochloromethane	1	0		4.58	17.83	20	20		0.280	0.250	10.87	
2,2-Dichloropropane	1	0		4.43	16.31	20	20		0.405	0.330	18.46	
Ethyl acetate	1	0		4.45	16.04	20	20		0.301	0.241	19.79	
1,4-Dioxane	1	0		5.51	2441.38	1000	20		0.001	0.002	144.14	C1
1,1-Dichloropropene	1	0		4.84	17.11	20	20		0.496	0.424	14.43	
Chloroform	1	0		4.62	16.89	20	20	0.2	0.697	0.589	15.55	
Dibromofluoromethane	1	0	S	4.72	30.09	30	**		0.286	0.287	0.31	
Cyclohexane	1	0		4.79	32.17	20	20	0.1	0.470	0.756	60.87	C1
1,2-Dichloroethane-d4	1	0	S	4.92	27.25	30	**		0.131	0.119	9.17	
1,2-Dichloroethane	1	0		4.96	17.65	20	20	0.1	0.442	0.390	11.77	
2-Butanone	1	0		4.43	19.43	20	20	0.1	0.106	0.103	2.86	
1,1,1-Trichloroethane	1	0		4.75	17.56	20	20	0.1	0.580	0.509	12.22	
Carbon Tetrachloride	1	0		4.85	18.44	20	20	0.1	0.528	0.487	7.81	
Vinyl Acetate	1	0		4.05	23.74	20	20		0.787	0.935	18.72	
Bromodichloromethane	1	0		5.58	17.70	20	20	0.2	0.536	0.474	11.49	
Methylcyclohexane	1	0		5.44	32.30	20	20	0.1	0.497	0.803	61.50	C1
Dibromomethane	1	0		5.51	19.25	20	20		0.312	0.301	3.77	
1,2-Dichloropropane	1	0		5.45	16.54	20	20	0.1	0.390	0.323	17.28	
Trichloroethene	1	0		5.32	18.48	20	20	0.2	0.467	0.431	7.62	
Benzene	1	0		4.97	17.48	20	20	0.5	1.527	1.335	12.59	
tert-Amyl methyl ether	1	0		5.01	17.96	20	20		0.903	0.811	10.22	
Chlorobenzene-d5	1	0	I	6.75	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	17.82	20	20	0.5	0.613	0.546	10.92	
Methyl methacrylate	1	0		5.47	16.68	20	20	0.5	0.282	0.235	16.58	
Dibromochloromethane	1	0		6.43	16.47	20	20	0.1	0.561	0.462	17.64	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 6M165299.D **Instrument:** GCMS 6

Cont Calibration Date/Time 3/16/2023 7:00:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	16.01	20	20		0.198	0.159	19.93	
cis-1,3-Dichloropropene	1	0		5.82	17.80	20	20	0.2	0.724	0.644	10.98	
trans-1,3-Dichloropropene	1	0		6.10	16.82	20	20	0.1	0.611	0.514	15.92	
Ethyl methacrylate	1	0		6.12	18.63	20	20	0.5	0.302	0.281	6.86	
1,1,2-Trichloroethane	1	0		6.21	18.19	20	20	0.1	0.460	0.418	9.05	
1,2-Dibromoethane	1	0		6.51	17.59	20	20	0.1	0.472	0.415	12.06	
1,3-Dichloropropane	1	0		6.31	16.65	20	20		0.743	0.618	16.73	
4-Methyl-2-Pentanone	1	0		5.89	16.29	20	20	0.1	0.293	0.239	18.53	
2-Hexanone	1	0		6.32	16.37	20	20	0.1	0.192	0.157	18.17	
Tetrachloroethene	1	0		6.31	16.37	20	20	0.2	0.426	0.348	18.16	
Toluene-d8	1	0	S	5.98	27.76	30	**		1.126	1.042	7.48	
Toluene	1	0		6.01	16.06	20	20	0.4	1.154	0.926	19.72	
1,1,1,2-Tetrachloroethane	1	0		6.80	16.88	20	20		0.485	0.410	15.61	
Chlorobenzene	1	0		6.77	17.42	20	20	0.5	1.315	1.145	12.90	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	16.99	20	20	0.5	1.289	1.095	15.04	
n-Amyl acetate	1	0		7.13	11.07	20	20	0.5	1.030	0.676	44.66	C1
Bromoform	1	0		7.21	16.09	20	20	0.1	0.701	0.564	19.55	
Ethylbenzene	1	0		6.81	14.91	20	20	0.1	0.971	0.724	25.44	C1
1,1,2,2-Tetrachloroethane	1	0		7.43	16.02	20	20	0.1	1.053	0.843	19.89	
Bromofluorobenzene	1	0	S	7.38	31.44	30	**		0.757	0.793	4.81	
Styrene	1	0		7.09	16.22	20	20	0.3	2.303	1.868	18.88	
m&p-Xylenes	1	0		6.87	32.70	40	20	0.1	1.336	1.092	18.24	
o-Xylene	1	0		7.09	15.32	20	20	0.3	1.439	1.102	23.38	C1
trans-1,4-Dichloro-2-butene	1	0		7.46	22.06	20	20		0.293	0.323	10.28	
1,3-Dichlorobenzene	1	0		8.01	16.37	20	20	0.6	1.818	1.488	18.13	
1,4-Dichlorobenzene	1	0		8.06	16.06	20	20	0.5	1.833	1.472	19.71	
1,2-Dichlorobenzene	1	0		8.28	16.33	20	20	0.4	1.739	1.420	18.36	
Isopropylbenzene	1	0		7.28	16.27	20	20	0.1	3.325	2.704	18.67	
Cyclohexanone	1	0		7.35	117.99	100	20		0.008	0.007	17.99	
Camphene	1	0		7.46	16.20	20	20		0.828	0.671	18.99	
1,2,3-Trichloropropane	1	0		7.46	16.77	20	20		1.173	0.983	16.17	
2-Chlorotoluene	1	0		7.58	16.23	20	20		2.119	1.719	18.87	
p-Ethyltoluene	1	0		7.57	16.42	20	20		3.491	2.865	17.92	
4-Chlorotoluene	1	0		7.63	15.93	20	20		2.076	1.654	20.34	
n-Propylbenzene	1	0		7.51	17.37	20	20		3.757	3.263	13.17	
Bromobenzene	1	0		7.48	17.97	20	20		2.054	1.846	10.14	
1,3,5-Trimethylbenzene	1	0		7.60	16.27	20	20		2.329	1.895	18.66	
Butyl methacrylate	1	0		7.60	18.34	20	20	0.5	0.764	0.701	8.28	
t-Butylbenzene	1	0		7.79	16.00	20	20		2.588	2.070	20.02	
1,2,4-Trimethylbenzene	1	0		7.82	16.37	20	20		2.527	2.068	18.14	
sec-Butylbenzene	1	0		7.92	16.17	20	20		3.047	2.464	19.13	
4-Isopropyltoluene	1	0		7.99	16.43	20	20		2.558	2.101	17.87	
n-Butylbenzene	1	0		8.23	16.57	20	20		2.616	2.167	17.16	
p-Diethylbenzene	1	0		8.21	11.94	20	20		1.517	1.160	40.31	C1
1,2,4,5-Tetramethylbenzene	1	0		8.67	16.95	20	20		1.406	1.192	15.23	
1,2-Dibromo-3-Chloropropane	1	0		8.73	16.61	20	20	0.05	0.225	0.187	16.96	
Camphor	1	0		9.16	175.84	200	20		0.054	0.043	12.08	
Hexachlorobutadiene	1	0		9.31	16.52	20	20		0.348	0.288	17.39	
1,2,4-Trichlorobenzene	1	0		9.22	15.96	20	20	0.2	0.891	0.711	20.19	
1,2,3-Trichlorobenzene	1	0		9.52	15.96	20	20		0.753	0.601	20.19	
Naphthalene	1	0		9.38	12.60	20	20		1.954	1.497	36.99	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M123440.D	WMB106837	A	03/15/23 09:41	1		NA	NA	96	94	NA	112
5M123481.D	WMB106862	A	03/17/23 09:23	1		NA	NA	121	120	NA	134
5M123447.D	AD36716-001	A	03/15/23 12:27	1		NA	NA	34 *	55	NA	62
5M123494.D	AD36716-013	A	03/17/23 14:33	1		NA	NA	91	91	NA	104
5M123495.D	AD36716-014	A	03/17/23 14:57	1		NA	NA	96	98	NA	124
5M123496.D	AD36716-015	A	03/17/23 15:20	1		NA	NA	121	127	NA	136
5M123497.D	AD36716-016(MS:AD36	A	03/17/23 15:44	1		NA	NA	123	113	NA	141
5M123498.D	AD36716-017(MSD:AD3	A	03/17/23 16:07	1		NA	NA	128	118	NA	141
5M123499.D	AD36716-018	A	03/17/23 16:31	1		NA	NA	105	102	NA	145
5M123500.D	AD36716-019	A	03/17/23 16:54	1		NA	NA	78	75	NA	101
5M123501.D	AD36716-020	A	03/17/23 17:18	1		NA	NA	104	113	NA	129
5M123502.D	AD36716-021	A	03/17/23 17:42	1		NA	NA	111	109	NA	145
5M123439.D	WMB106837(MS)	A	03/15/23 09:18	1		NA	NA	110	100	NA	115
5M123444.D	AD36590-031(T)	A	03/15/23 11:16	1		NA	NA	104	101	NA	119
5M123445.D	AD36590-031(T)(MS)	A	03/15/23 11:40	1		NA	NA	113	106	NA	116
5M123446.D	AD36590-031(T)(MSD)	A	03/15/23 12:04	1		NA	NA	112	100	NA	112
5M123480.D	WMB106862(MS)	A	03/17/23 08:59	1		NA	NA	125	122	NA	136

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 104579

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 104579

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	25	A031723A	24	228.5340	226.5550	.87		20
Chromium	104579	A031723A	25	A031723A	24	234.1970	231.8620	1		20
Copper	104579	A031723A	25	A031723A	24	233.1580	236.8990	1.6		20
Lead	104579	A031723A	25	A031723A	24	219.2180	218.4320	.36		20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD36716-015

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	27	A031723A	26	1U	1U	---		20
Chromium	104579	A031723A	27	A031723A	26	1U	1.1460	---		20
Copper	104579	A031723A	27	A031723A	26	11.3700	8.2000	32	b	20
Lead	104579	A031723A	27	A031723A	26	3.6300	3.1320	15		20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD36716-017

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Arsenic	104579	A031723A	30	A031723A	29	223.4040	230.8130	3.3		20
Chromium	104579	A031723A	30	A031723A	29	224.3790	232.4100	3.5		20
Copper	104579	A031723A	30	A031723A	29	224.7930	232.9890	3.6		20
Lead	104579	A031723A	30	A031723A	29	204.8260	212.3140	3.6		20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD36716-015

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	104579	A031723A	28	A031723A	26	5	0.0580	0.3740	22	c	20
Chromium	104579	A031723A	28	A031723A	26	5	0.2150	1.1460	6.2		20
Copper	104579	A031723A	28	A031723A	26	5	1.7030	8.2000	---		20
Lead	104579	A031723A	28	A031723A	26	5	0.8420	3.1320	34	a	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M66140.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 3/17/2023 9:11:00 A Method: EPA8270E SIM

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	5.22	5	20		0.908	0.949	4.48	
1,4-Dichlorobenzene-d4	1	0	I	5.80	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.99	5.75	5	20	0.01	1.131	1.300	14.95	
bis(2-Chloroethyl)ether	1	0		5.58	5.02		**		1.359			
2-Methylphenol	1	0		6.00	5.68	5	20		0.984	1.117	13.51	
Hexachloroethane	1	0		6.21	5.50	5	20	0.3	0.483	0.531	10.00	
3&4-Methylphenol	1	0		6.00	5.74	5	20		0.973	1.118	14.83	
Naphthalene-d8	1	0	I	6.80	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.24	25.10		**		0.213			
2,4-Dimethylphenol	1	0		6.54	2.72	5	20		0.173	0.094	45.53	C1
Naphthalene	1	0		6.82	4.63	5	20	0.7	1.020	0.945	7.37	
Hexachlorobutadiene	1	0		6.92	4.34	5	20	0.01	0.187	0.163	13.15	
Acenaphthene-d10	1	0	I	8.24	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.48	5.42	5	20		0.208	0.225	8.34	
2,4,5-Trichlorophenol	1	0		7.60	6.18		**		0.270			
2-Fluorobiphenyl	1	0	S	7.64	27.11		**		1.004			
Acenaphthylene	1	0		8.11	5.51	5	20	0.9	1.726	1.901	10.18	
Acenaphthene	1	0		8.26	5.06	5	20	0.9	1.133	1.147	1.21	
Dibenzofuran	1	0		8.42	4.68	5	20		1.624	1.519	6.45	
Fluorene	1	0		8.74	5.64	5	20	0.9	0.946	1.067	12.82	
Phenanthrene-d10	1	0	I	9.70	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	5.18	5	20	0.01	0.044	0.057	3.65	
1,2-Diphenylhydrazine	1	0		8.87	5.59	5	20		0.414	0.463	11.86	
Hexachlorobenzene	1	0		9.28	4.71	5	20	0.1	0.215	0.202	5.87	
Pentachlorophenol	1	0		9.48	5.27	5	20	0.05	0.069	0.094	5.38	
Phenanthrene	1	0		9.72	4.82	5	20	0.7	1.059	1.021	3.57	
Anthracene	1	0		9.77	5.16	5	20	0.7	0.885	0.913	3.25	
Carbazole	1	0		9.94	5.42	5	20	0.01	0.743	0.805	8.33	
Fluoranthene	1	0		11.05	5.73	5	20	0.6	0.993	1.138	14.62	
Chrysene-d12	1	0	I	12.74	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.31	4.83	5	20	0.6	2.716	2.625	3.34	
Terphenyl-d14	1	0	S	11.50	25.76		**		1.283			
Benzo[a]anthracene	1	0		12.73	6.10	5	20	0.8	1.281	1.563	22.03	C1
Chrysene	1	0		12.78	4.65	5	20	0.7	1.720	1.600	6.95	
Perylene-d12	1	0	I	14.37	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.96	5.83	5	20	0.7	1.602	1.868	16.65	
Benzo[k]fluoranthene	1	0		13.99	4.62	5	20	0.7	2.038	1.884	7.56	
Benzo[a]pyrene	1	0		14.31	5.49	5	20	0.7	1.509	1.658	9.89	
Indeno[1,2,3-cd]pyrene	1	0		15.67	5.81	5	20	0.5	1.765	2.052	16.28	
Dibenzo[a,h]anthracene	1	0		15.70	5.89	5	20	0.4	1.355	1.595	17.71	
Benzo[g,h,i]perylene	1	0		16.04	5.22	5	20	0.5	1.582	1.653	4.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

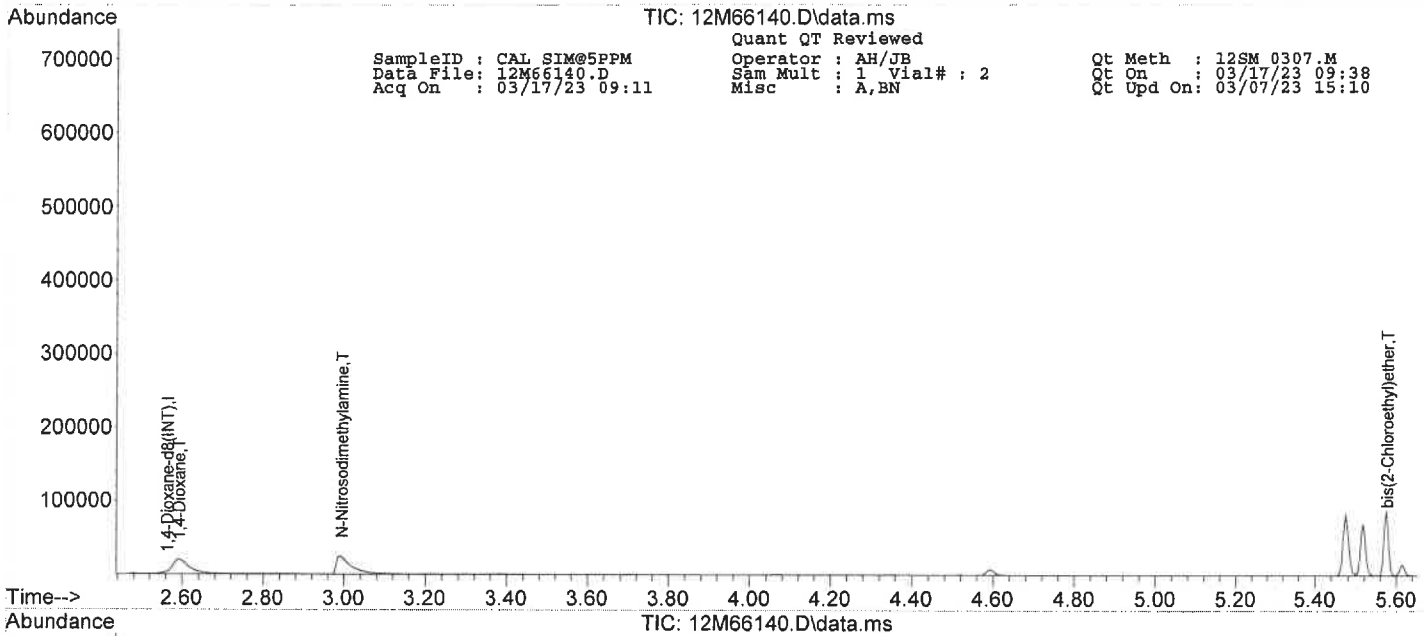
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM Operator : AH/JB Qt Meth : 12SM_0307.M
Data File: 12M66140.D Sam Mult : 1 Vial# : 2 Qt On : 03/17/23 09:38
Acq On : 03/17/23 09:11 Misc : A,BN Qt Upd On: 03/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\03-17-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.564	96	26360m	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.801	152	24820	0.40	ng	0.00
9) Naphthalene-d8	6.805	136	118851	0.40	ng	0.00
14) Acenaphthene-d10	8.237	164	60628	0.40	ng	0.00
22) Phenanthrene-d10	9.695	188	122015	0.40	ng	0.00
31) Chrysene-d12	12.744	240	51332m	0.40	ng	0.00
36) Perylene-d12	14.370	264	40436m	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.243	82	1586654	25.10	ng	0.00
Spiked Amount 50.000			Recovery = 50.20%			
17) 2-Fluorobiphenyl	7.642	172	3327583	27.11	ng	0.00
Spiked Amount 50.000			Recovery = 54.22%			
33) Terphenyl-d14	11.502	244	3396700	25.76	ng	0.00
Spiked Amount 50.000			Recovery = 51.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.592	88	312581m	5.2240	ng	
4) N-Nitrosodimethylamine	2.994	74	403252	5.7475	ng	83
5) bis(2-Chloroethyl)ether	5.578	93	423025	5.0151	ng	83
6) 2-Methylphenol	5.998	108	346704	5.6755	ng	79
7) Hexachloroethane	6.215	201	164805	5.5000	ng	94
8) 3&4-Methylphenol	5.999	108	346759	5.7414	ng	79
11) 2,4-Dimethylphenol	6.537	107	139690	2.7233	ng	73
12) Naphthalene	6.817	128	1404053	4.6316	ng	100
13) Hexachlorobutadiene	6.916	225	241420	4.3427	ng	44
15) Hexachlorocyclopentadiene	7.481	237	170362	5.4168	ng	73
16) 2,4,5-Trichlorophenol	7.599	196	252484m	6.1790	ng	
18) Acenaphthylene	8.107	152	1440886	5.5091	ng	99
19) Acenaphthene	8.258	153	869237	5.0603	ng	78
20) Dibenzofuran	8.417	168	1151405	4.6773	ng	98
21) Fluorene	8.735	166	808615	5.6412	ng	91
23) 4,6-Dinitro-2-methylph...	8.769	198	87070	5.1823	ng	76
24) 1,2-Diphenylhydrazine	8.874	77	706178	5.5932	ng	80
25) Hexachlorobenzene	9.281	284	308484	4.7064	ng	86
26) Pentachlorophenol	9.480	266	143558	5.2691	ng	94
27) Phenanthrene	9.715	178	1557036	4.8214	ng	100
28) Anthracene	9.768	178	1393189	5.1624	ng	98
29) Carbazole	9.942	167	1227262	5.4163	ng	97
30) Fluoranthene	11.048	202	1735192	5.7309	ng	92
32) Pyrene	11.313	202	1684510	4.8332	ng	93
34) Benzo[a]anthracene	12.735	228	1002767m	6.1017	ng	
35) Chrysene	12.777	228	1026778	4.6527	ng	97
37) Benzo[b]fluoranthene	13.958	252	944321	5.8324	ng	91
38) Benzo[k]fluoranthene	13.988	252	952108	4.6220	ng	98
39) Benzo[a]pyrene	14.310	252	837922	5.4947	ng	93
40) Indeno[1,2,3-cd]pyrene	15.671	276	1037084	5.8138	ng	98
41) Dibenzo[a,h]anthracene	15.695	278	806293	5.8855	ng	99
42) Benzo[g,h,i]perylene	16.039	276	835258	5.2219	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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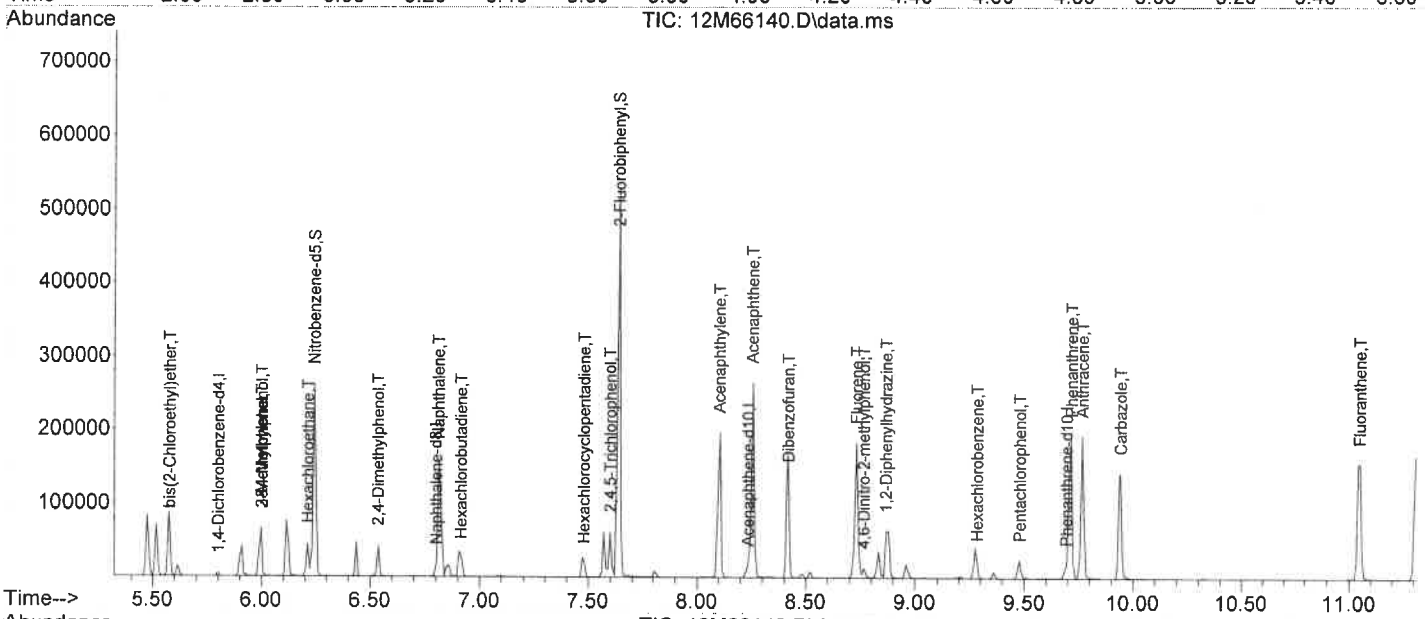
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M66140.D
Acq On : 03/17/23 09:11
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0307.M
Qt On : 03/17/23 09:38
Qt Upd On: 03/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->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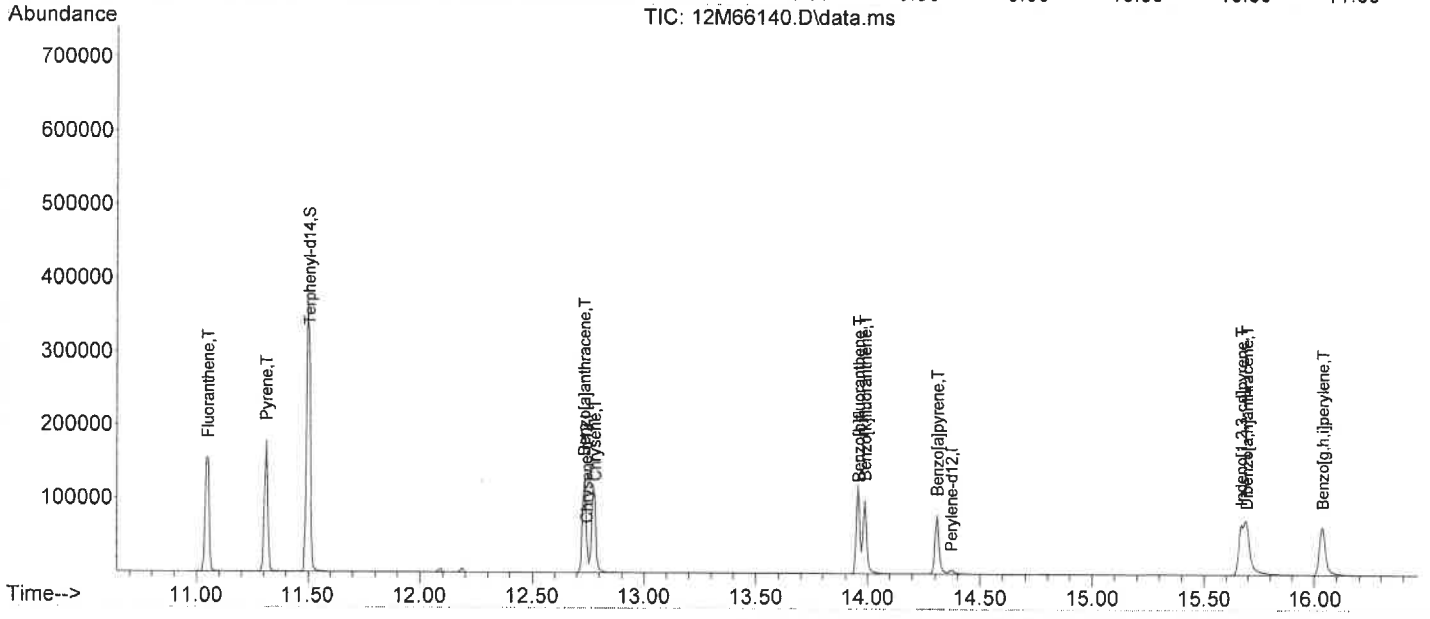
1,4-Dichlorobenzene-d4,I
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Time-->


Abundance
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Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

Form1

ORGANICS PCB REPORT

Sample Number: AD36716-021
Client Id: 030923 EB
Data File: 2G173929.D
Analysis Date: 03/16/23 15:02
Date Rec/Extracted: 03/10/23-03/15/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 691163

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of α-Chlordane and γ-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\03-16-23\
Data File : 2G173929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2023 15:02
Operator : AH/PR/KM
Sample : AD36716-021
Misc : A,PCB
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 16 15:13:33 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0123.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed Mar 15 10:24:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.176	612.4E6	930.1E6	74.775	73.714
45)DCB-Surrogate	8.621	8.990	288.8E6	418.7E6	40.463m	40.248

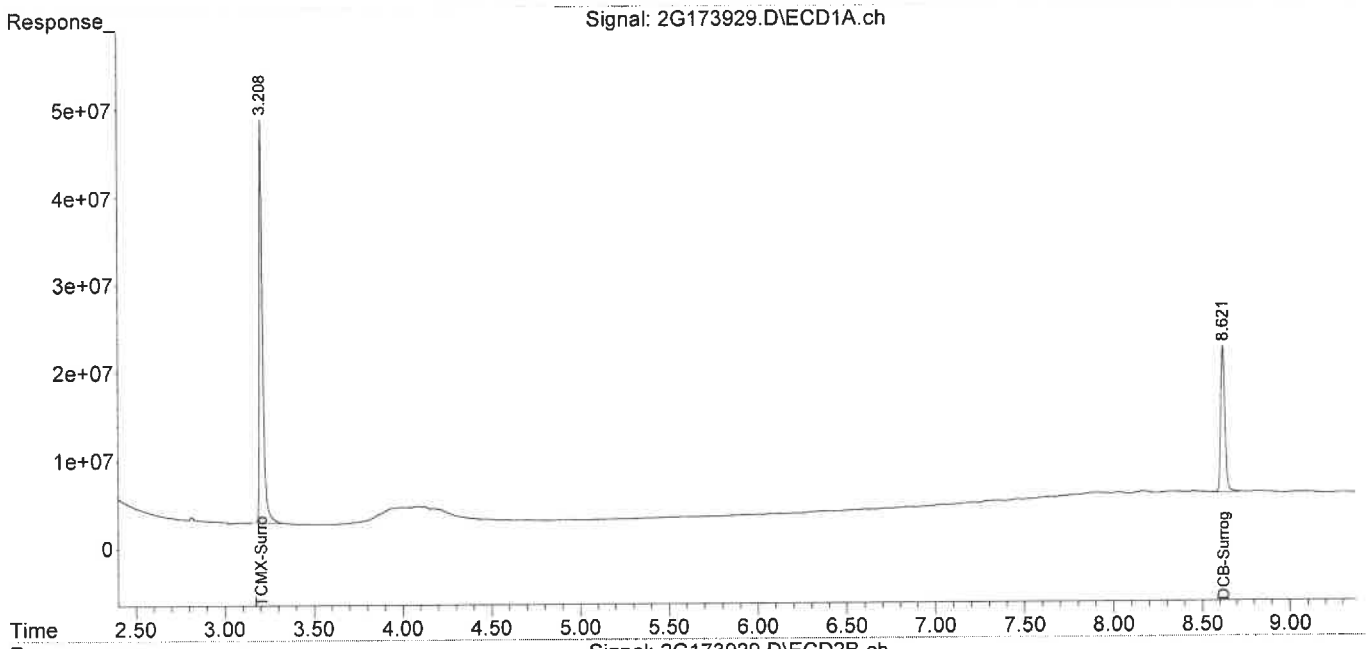
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

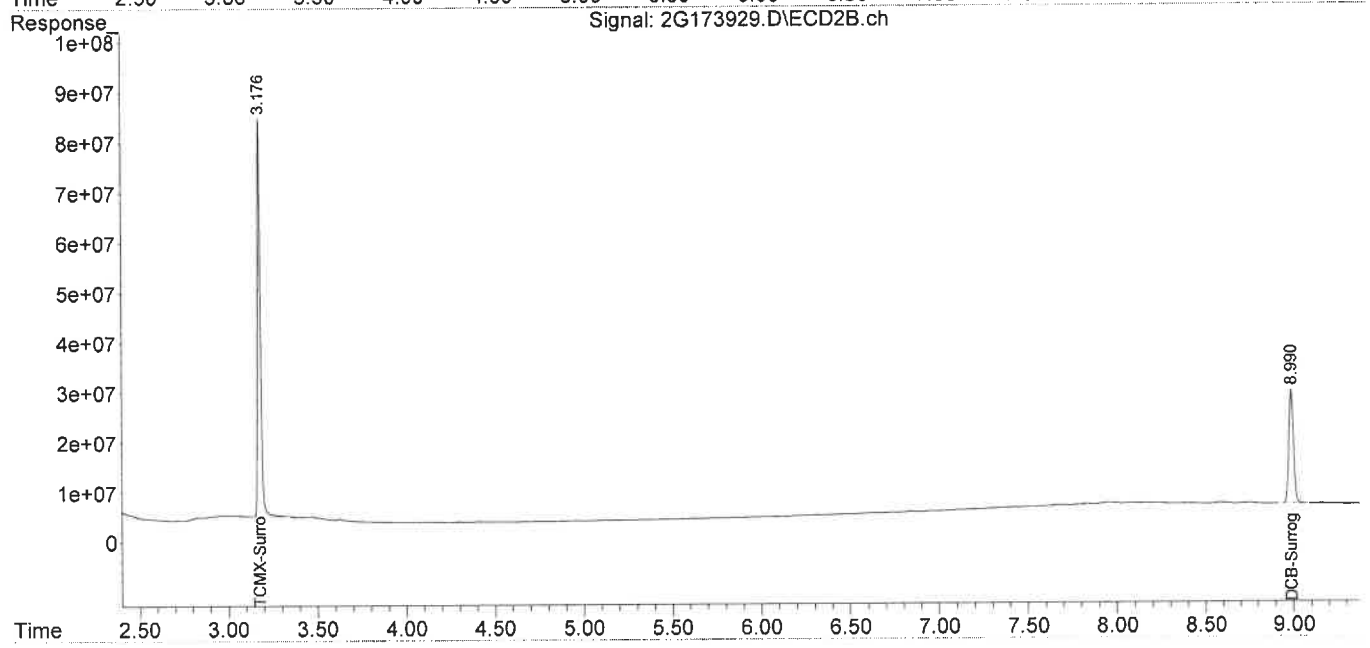
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\03-16-23\
Data File : 2G173929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2023 15:02
Operator : AH/PR/KM
Sample : AD36716-021
Misc : A,PCB
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 16 15:13:33 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0123.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed Mar 15 10:24:21 2023
Response via : Initial Calibration
Integrator: ChemStation

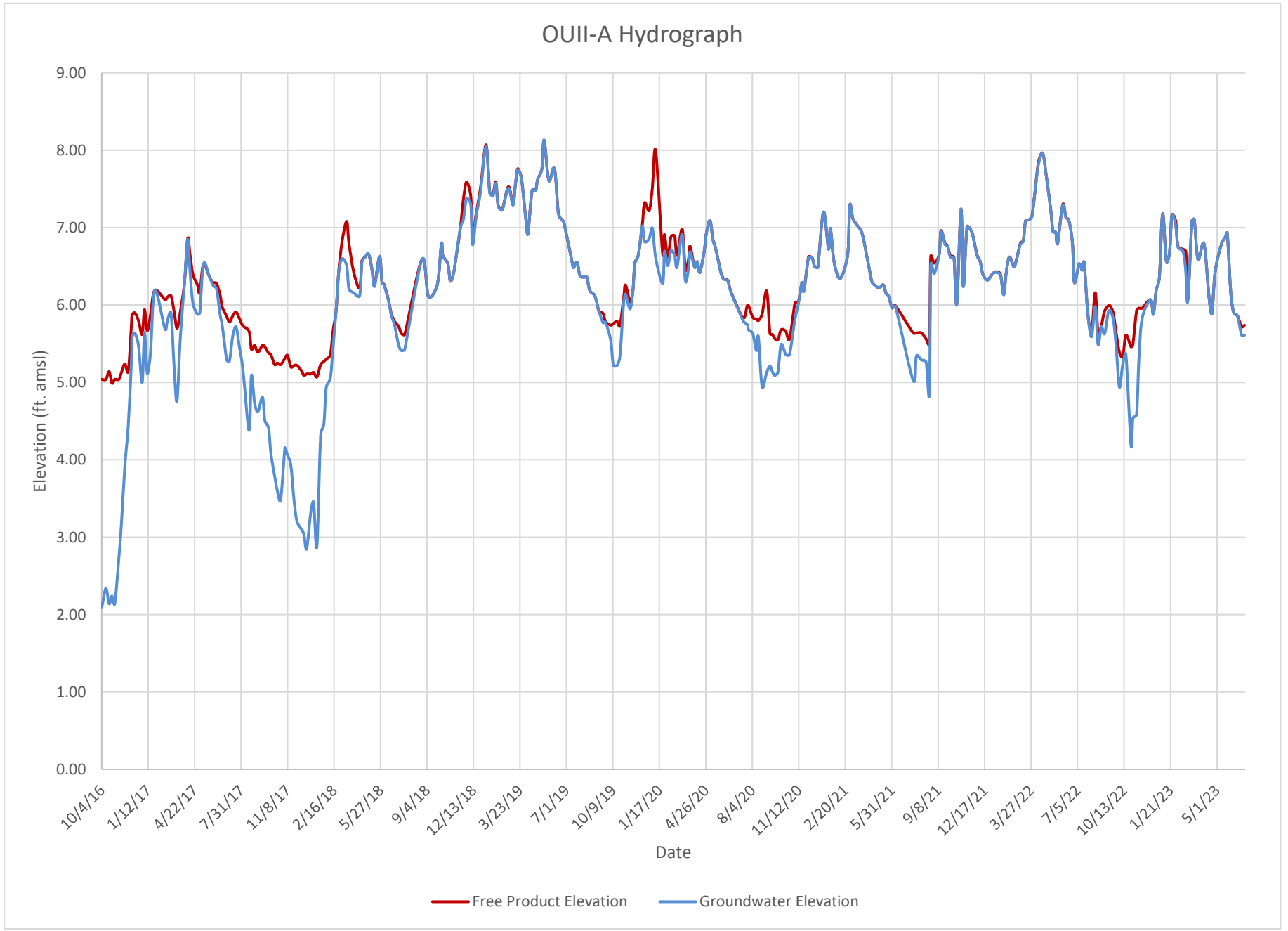
Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

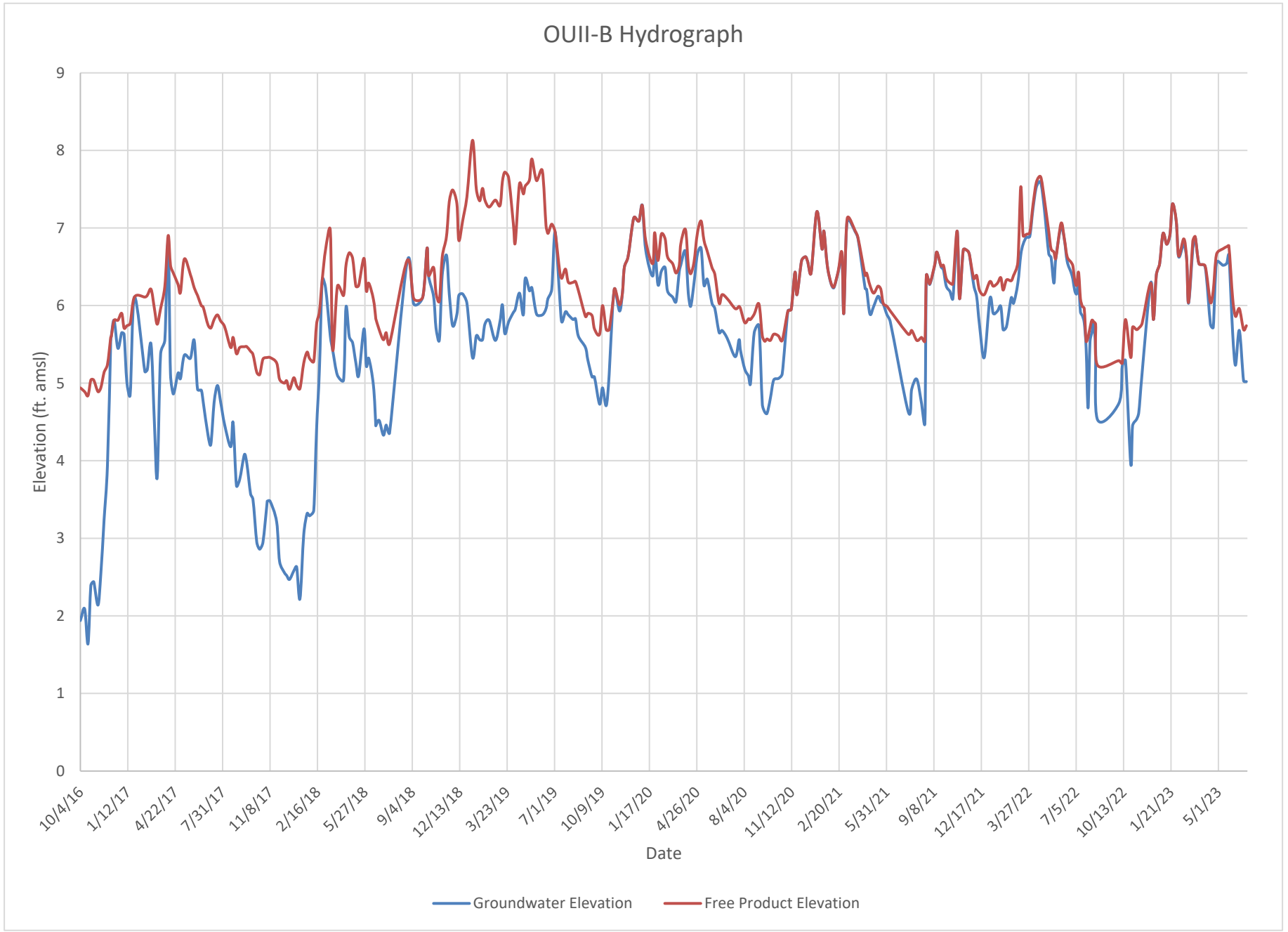


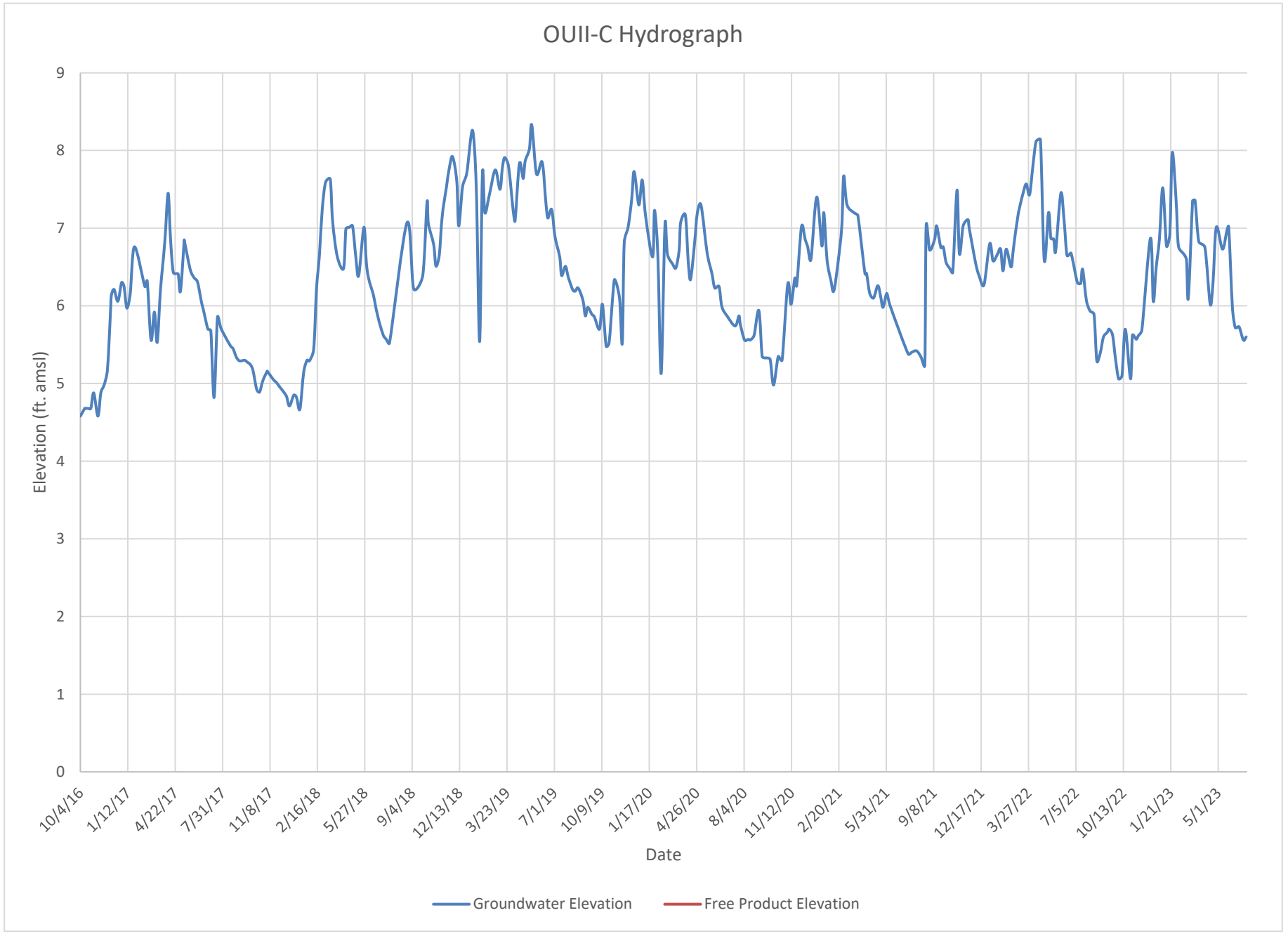


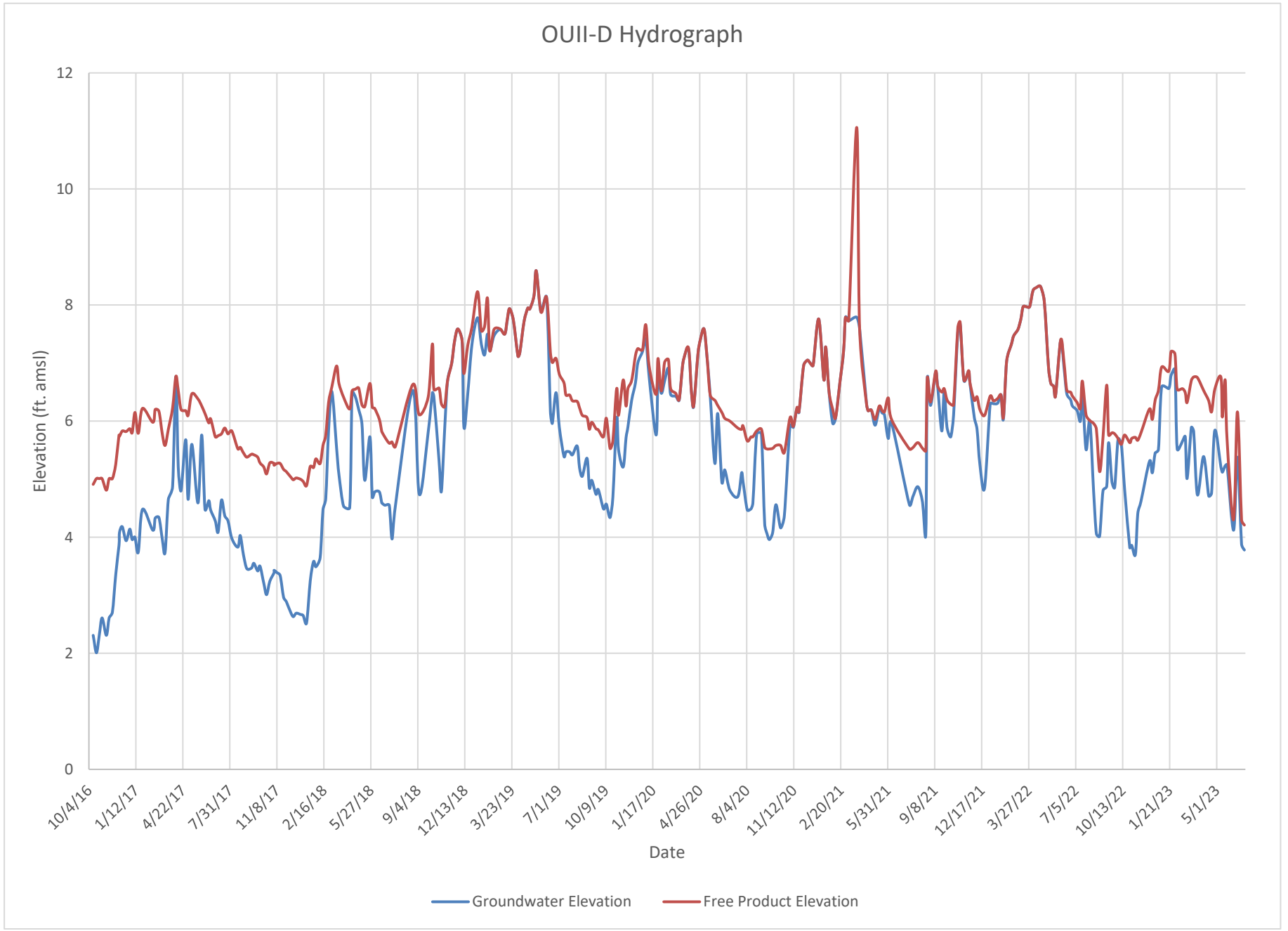
ATTACHMENT C

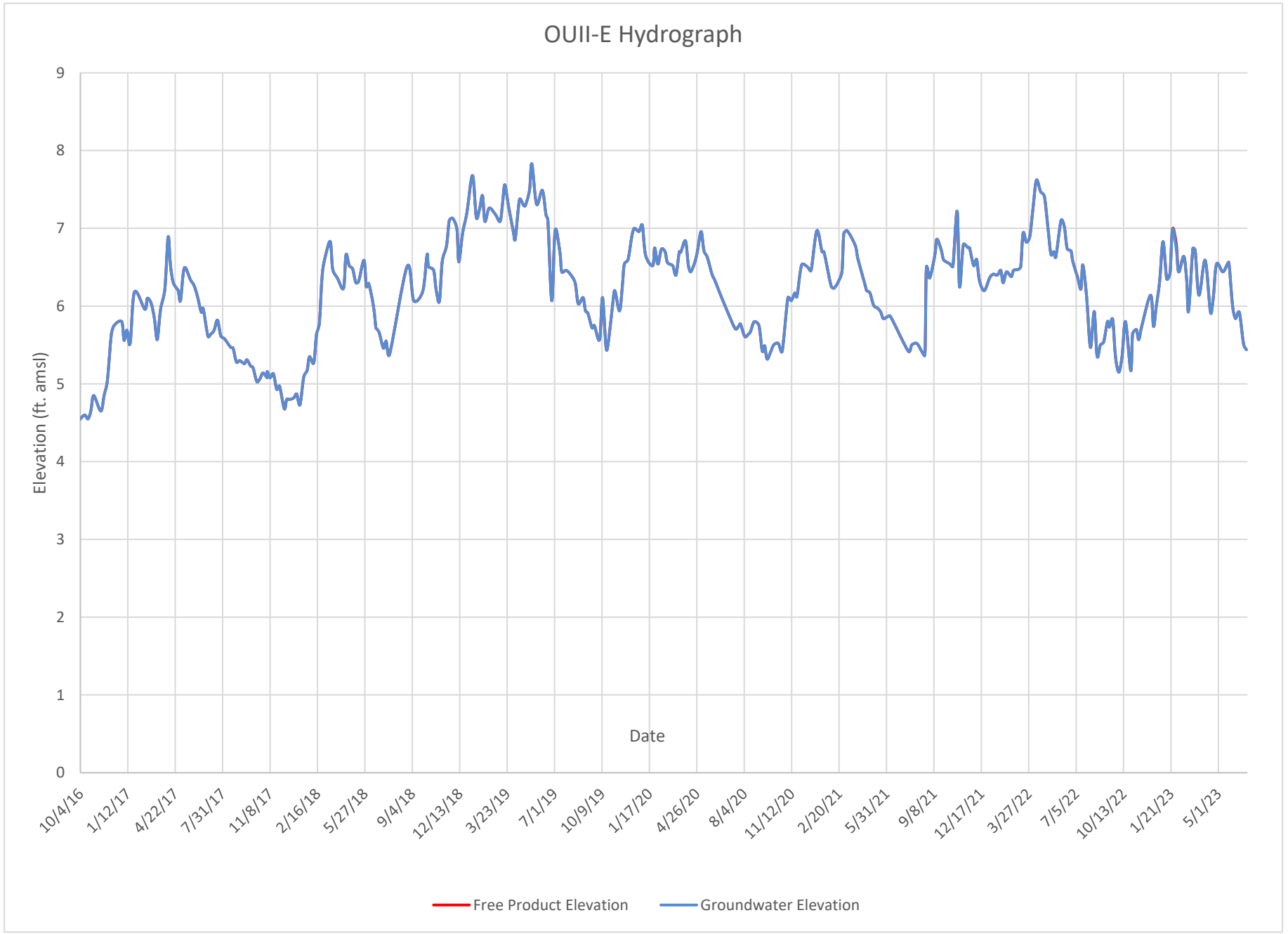
Off-Site Monitoring Well Hydrographs

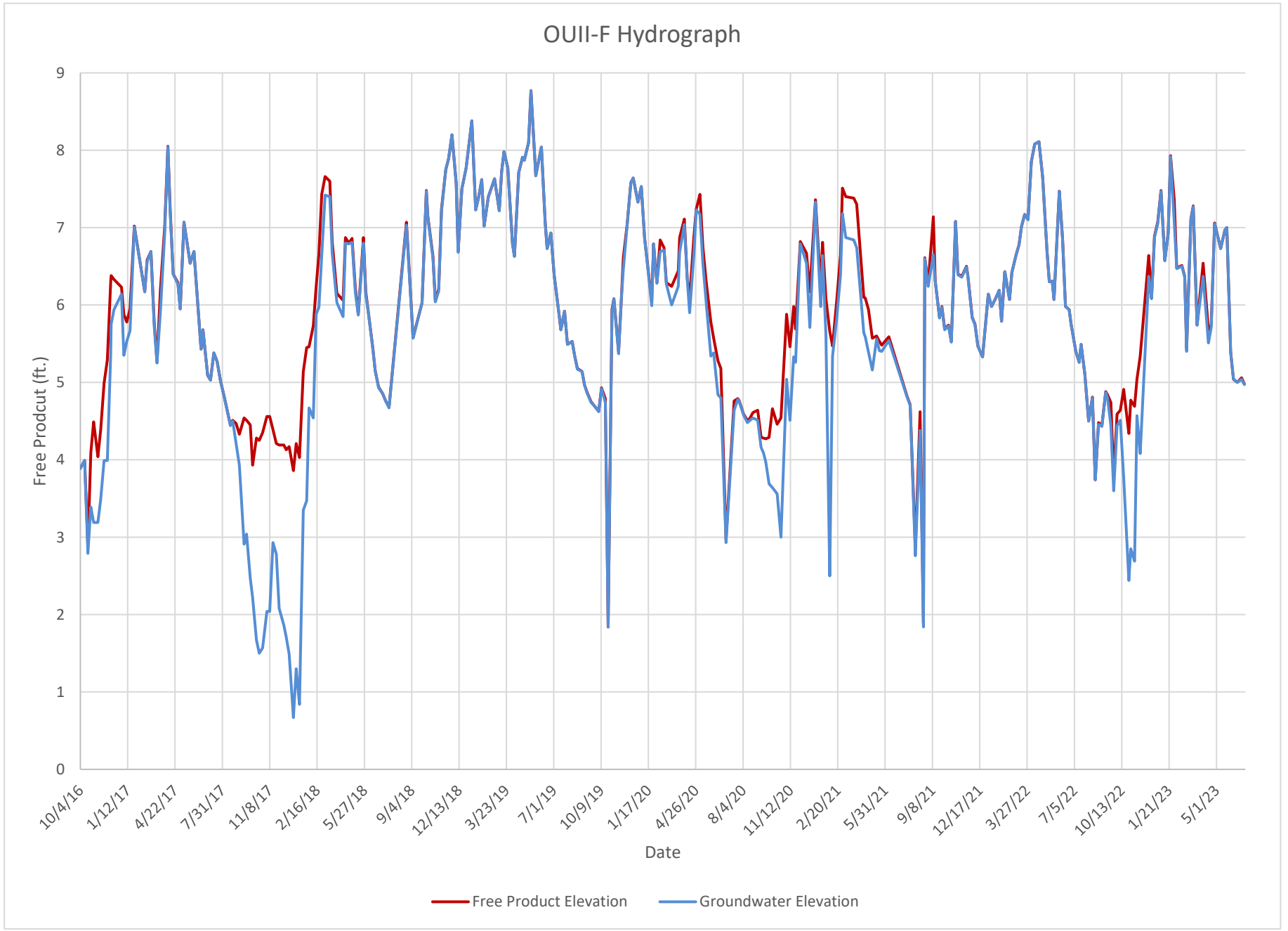

OUII-A Hydrograph
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Elevation (ft. amsl)
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Free Product Elevation
Groundwater Elevation


OUII-B Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Groundwater Elevation
Free Product Elevation


OUII-C Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Groundwater Elevation
Free Product Elevation


OUII-D Hydrograph
Elevation (ft. amsl)
12
10
8
6
4
2
0
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Groundwater Elevation
Free Product Elevation


OUII-E Hydrograph
Elevation (ft. amsl)
9
8
7
6
5
4
3
2
1
0
Date
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Free Product Elevation
Groundwater Elevation


OUII-F Hydrograph
Free Prodcut (ft.)
0
1
2
3
4
5
6
7
8
9
10/4/16
1/12/17
4/22/17
7/31/17
11/8/17
2/16/18
5/27/18
9/4/18
12/13/18
3/23/19
7/1/19
10/9/19
1/17/20
4/26/20
8/4/20
11/12/20
2/20/21
5/31/21
9/8/21
12/17/21
3/27/22
7/5/22
10/13/22
1/21/23
5/1/23
Date
Free Product Elevation
Groundwater Elevation

ATTACHMENT D

Site Inspection

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	
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:
Limited cracking in asphalt between L1 and L4 area to be addressed. Image attached

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).
Good Condition

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	
Settlement or erosion in the area of the NAPL Area L1 sheet pile wall?		x	

Specify the Recommended Corrective Actions and Other Relevant Observations:
Area in good condition

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.
P-7 Missing cap. Image attached

OU-I/OU-II Drainage Channels

	Yes	No	Corrective Action Needed?
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?		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.]

Specify the Recommended Corrective Actions and Other Relevant Observations:

Drain is clear and functioning

OU-I/OU-II Waste Accumulation Drums and Tank

	Yes	No	Corrective Action Needed?
Is the 500-gallon waste oil disposal AST full? **TANK REMOVED – N/A**			
Are the 55-gallon waste oil disposal drums full?		x	
Is 55-gallon NRD disposal drum full **NO LONGER USE NRD _ N/A**			
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.

3 drums sampled 10/25 and 4 drums sampled 11/7/22. Disposal on 1/6/23. See attached samples and BOL.

OU-I/OU-II Perimeter Fencing

	Yes	No	Corrective Action Needed?
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: 4/21/23 Inspection Completed By: S. Gianazza

cc: Metro-North Department of Environmental Compliance and Services

Cracks in asphalt cover of OU-1

Crack in asphalt cover of OU-1

Missing cap of well P-7