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Mr. Douglas MacNeal
Division of Environmental Remediation
New York State Department of
Environmental Conservation
625 Broadway, 11th Floor
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Groundwater Monitoring Event Report - 2021 Q1
Ithaca Court Street Former MGP Site - OU-2
Ithaca, New York
NYSDEC Site:7-55-008

Dear Mr. MacNeal

On behalf of New York State Electric and Gas (NYSEG), AECOM USA, Inc. (AECOM) is pleased to present this Groundwater Monitoring Event (GME) report for the former Ithaca Court Street Manufactured Gas Plant (MGP) Operable Unit 2 (OU-2) site in Ithaca, New York (the "Site"). **Figure 1** attached shows the Site Location Plan.

This correspondence documents the findings of the GME completed over the period March 1 – March 4, 2021 (2021 Q1 GME) which was undertaken in accordance with the Draft Site Management Plan (SMP; AECOM, 2019).

Results from the 2021 Q1 GME will be incorporated into the ongoing groundwater monitoring dataset in accordance with the requirements of the Draft SMP.

1. Background

The NYSEG Ithaca site is divided into two operable units (OUs). Operable Unit 1 (OU-1) consists of the former MGP parcel, surrounding sidewalks, and the location of the former tar duct structures under West Court Street from the site to North Meadow Street. Operable Unit 2 (OU-2) consists of any areas outside of the OU-1 boundary that may have been impacted by the migration of MGP residuals directly from OU-1 historical operations.

The primary constituents of concern at the Site are benzene, toluene, ethylbenzene, and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs) and cyanide. The Site has undergone extensive remedial investigation and numerous interim remedial measures and remedial actions including excavations and historical structure removal have been completed. A history of the remedial investigations and actions completed at the Site is provided in the Draft SMP.

The Draft SMP was submitted to the New York State Department of Environmental Conservation (NYSDEC) in October 2019 and is pending approval. The Draft SMP outlines the monitoring requirements for the Site which include quarterly groundwater monitoring for 15 locations across the Site for two years (September 2020 – September 2022) to establish baseline conditions and to evaluate the potential for seasonal fluctuations in constituent concentrations. From year three through year five (October 2022 – October 2025), only wells containing MGP-related constituents at concentrations greater than the applicable water quality standards and guidance values will be sampled quarterly. The remaining wells will be sampled annually.

The 2021 Q1 GME is the second GME to be completed since submission of the Draft SMP to NYSDEC in October 2019.

2. Scope of Work

The scope of work completed for the 2021 Q1 GME included the following:

- On March 2, 2021, water level gauging was completed at the 15 groundwater wells specified for monitoring by the Draft SMP, namely; MW-C11, MW-C12, MW-C16, MW-22S, MW-23S, MW-24S, MW-25S, MW-28S, MW-31S, MW-33S, MW-40, MW-45S, MW-46S, MW-47S, and MW-48S. Groundwater monitoring well locations are presented in **Figure 2** attached.
- Water level gauging was also completed on March 2, 2021, at 25 additional locations where access was possible in order to assess water levels across the broader monitoring well network (refer **Table 1** attached).
- Each well was gauged for the presence of non-aqueous phase liquid (NAPL) using an oil-water interface probe.
- On March 3 and 4, 2021, a total of 15 groundwater wells (MW-C11, MW-C12, MW-C16, MW-22S, MW-23S, MW-24S, MW-25S, MW-28S, MW-31S, MW-33S, MW-40, MW-45S, MW-46S, MW-47S, and MW-48S) were sampled in accordance with the Draft SMP. The following groundwater sampling activities were conducted:
  - Water level measurements were taken at each well prior to purging and sampling. A synoptic set of water level measurements was obtained during this sampling event.
  - Each well was purged and sampled using low-stress (low flow) groundwater sampling methods by use of a peristaltic pump. Wells were purged until the following groundwater parameters were stabilized for three consecutive readings:
    - Temperature (°C)
    - pH
    - Specific Conductivity (µS/cm)
    - Dissolved Oxygen (mg/L)
    - Oxidation Reduction Potential (mV)
    - Turbidity (NTU)
    - Drawdown (feet)
  - Field parameters, including pH, oxidation/reduction potential (ORP), dissolved oxygen (DO), and turbidity, were monitored and documented prior to sample collection. The following stabilization criteria were met for each parameter before sampling:
    - Temperature ±3%
    - pH ±1.0 unit
    - Dissolved Oxygen ±10%
    - Oxidation Reduction Potential ±10mV
    - Specific Conductivity ±3%
    - Drawdown <0.3’

    Groundwater purge and sampling forms are provided in **Appendix A**.
  - Any well that ran dry prior to stabilization was allowed to recharge overnight and was subsequently sampled by low flow methods the following day.
  - All wastewater generated during sampling (purge water, and decontamination fluids) was containerized in 55-gallon steel drums for off-Site disposal.
- Quality control samples were collected including one for every 20 field samples taken. Quality control samples consisted of a field duplicate, a matrix spike, a matrix spike duplicate, and an equipment blank. Based on the number of wells to be sampled (15), one set of quality control samples were required. A trip blank was sent daily with each set of VOC samples. Quality control samples will be analyzed for BTEX, PAH and total cyanide.
- Groundwater samples were shipped on March 3 and 4, 2021 to Eurofins Test America in Buffalo, New York for laboratory analysis.

All activities were conducted in accordance with the Work Plan (AECOM, 2020a) that was submitted to, and approved by, the NYSDEC on September 1, 2020.

Further to the above, in response to the recommendation provided in the AECOM, 2020b regarding the removal of sediments and residual solids to the extent practicable in select wells, this was completed following sampling at monitoring wells MW- C11, MW-31S, MW-33S, MW-40, MW-45S and MW-48S.

3. Groundwater Gauging and Sampling Observations

A total of 40 groundwater wells were gauged, and 15 wells sampled. Well gauging data is provided in Table 1 attached. A summary of observations is provided below:

- Depth to water ranged from 1.53 feet below ground level (ft bgl) [MW-17S] to 8.19 ft bgl (MW-28S), and the groundwater table was slightly higher compared to the previous gauging event completed in September 2020.
- The general direction of groundwater flow in the shallow portion of the aquifer was to the northwest, similar to that documented in previous sampling events. A westerly component of flow is noted in proximity to the intersection of West Court Street and Washington Street which is consistent with the Site Conceptual Model. **Figure 3** attached presents the shallow aquifer inferred groundwater surface contours.
- No measurable NAPL was identified in any of the gauged wells and no visible sheen was observed during purging.
- Visual observations included the presence of rust-like particulate and/or rusty colored water in purge water at MW-C16, MW-33S, MW-40, MW-45S, MW-46S, MW-47S, and MW-48S. After pumping for approximately 10 - 20 minutes, the water at these locations became clear.
- Petroleum-like odors were noted during sampling at MW-C11 and MW-C12. It is noted that no sheen was observed in the purge water at these locations. A chemical-like odor was noted at MW-40 and no sheen was noted. Sulfur-like odors were noted at MW-20, MW-46S and MW-48S.

4. Analytical Laboratory Analyses

All groundwater samples were analyzed for:

- BTEX: EPA Method 8260C
- PAHs: EPA Method 8270D
- Total cyanide: EPA Method 9012B
- Monitored Natural Attenuation (MNA) parameters:
  - Nitrate: EPA Method 353.2
  - Ammonia: EPA Method 350.1
  - Total Iron: EPA Method 6010C
  - Ferrous Iron: EPA Method SM 3500-Fe D
  - Sulfate: EPA Method 300
  - Methane: EPA Method RSK-175
  - Alkalinity: EPA method SM 2320B

The laboratory prepared a complete NYSDEC ASP Category B data delivery package for the BTEX, PAH, total cyanide, and MNA analysis. **Appendix B** contains the full laboratory report obtained from Eurofins Test America Laboratory.

5. Discussion of Analytical Results

Samples were collected from all 15 wells as required by the Draft SMP. The groundwater sample results were validated by an AECOM chemist, and all data have been determined to be usable and no data points were rejected. A full copy of the DUSR is provided in **Appendix C**.

Results of analysis have been screened against the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS/GV) for water class GA. **Table 2** and **Table 3** attached provides a summary of the analytical results screened against the AWQS/GV. Also included in **Table 2** are the results of the previous analyses completed in 2016 and 2020 for reference.

Figure 4 summarizes groundwater exceedances for BTEX, PAHs and total cyanide. An overview of the groundwater analytical results is provided below.

5.1 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)

A total of four out of 15 sampled wells reported concentrations of BTEX above the AWQS/GV for at least one compound, namely; MW-C12, MW-23S, MW-46S and MW-48S.

MW-C12, located on North Plain Street in the vicinity of the in-situ chemical oxidation (ISCO) remedial action work, reported benzene and ethylbenzene exceedances. The other three wells reporting BTEX compounds above the AWQS/GV are located to the west of the Site in the Washington Street area.

On comparison with the data obtained at the time of the previous GME, the following is noted:

- MW-22S (located near the corner of Washington Street and Etsy Street) reported BTEX concentrations exceeding the AWQS/GV during the previous GME and had no detections during this GME.
- The benzene concentration at MW-48S decreased from 69ug/L to 35ug/L.
- Benzene concentrations increased at the following locations:
  - MW-46S increased from 720ug/L to 1,200ug/L
  - MW-C12 increased from 9.8ug/L to 16ug/L.
- MW-46S had a notable increase in toluene and total xylenes concentrations from non-detect to 32 ug/L and from 210 ug/L to 440ug/L, respectively
- MW-C12 had a notable increase in ethylbenzene concentration from non-detect to 31 ug/L.
- MW-C11, MW-C16, MW-24S, MW-25S, MW-28S, MW-31S, MW-33S, MW-40S, MW-45S, and MW-47S have reported BTEX concentrations below the AWQS/GV during the previous GME and this GME.

5.2 Polycyclic Aromatic Hydrocarbons (PAHs)

A total of eight out of 15 sampled wells reported concentrations of PAHs above the AWQS/GV for at least one compound, namely; MW-C11, MW-C12, MW-C16, MW-22S, MW-23S, MW-24S, MW-46S and MW-48S.

Four of the wells with exceedances are located in the North Plain Street area, and the other four wells are located to the west of the Site in the Washington Street area.

On comparison with the data obtained at the time of the previous GME, the following is noted:

- Increases in select PAHs including naphthalene were observed in MW-46S.
- Decreases in select PAHs including naphthalene were observed at MW-23S and MW-48S.
- MW-25S, MW-28S, MW-31S, MW-33S, MW-40S, MW-45S, and MW-47S have reported PAH concentrations below the AWQS/GV during the previous GME and this GME.

5.3 Total Cyanide

MW-22S was the only location with a total cyanide concentration above the AWQS/GV at the time of the 2021 Q1 GME. Total cyanide was reported at 1.3 mg/L, above the AWQS/GV of 0.2 mg/L. Total cyanide concentrations at other locations are comparable to the previous GME.

5.4 Monitored Natural Attenuation (MNA) Parameters

Several groundwater parameters including sulfate, ammonia, nitrate, nitrite, alkalinity, iron and methane were analyzed to inform the assessment of MNA. **Table 3** presents the MNA results, and the following is noted:

- Reported concentrations of MNA parameters were variable across the Site with some locations showing high concentrations, and others were non-detect. This is consistent with the results from the previous GME.
- Nitrate was reported at a concentration above the AWQS/GV at MW-22S.
- Sulphate was reported at concentrations above the AWQS/GV at MW-C11 and MW-C16.
- Concentrations of ammonia were reported above the AWQS/GV at MW-C11, MW-46S and MW-47S.
- Consistent with the previous GME:
  - Iron was detected at all locations at concentrations higher than the AWQS/GV. Iron is not a constituent of concern at the Site and these concentrations are likely naturally occurring.
  - Methane was detected across the groundwater monitoring well network which may indicate the presence of biological activity at the Site.
- ORP ranged from -131.8 MeV (MW-47S) to 79.8 MeV (MW-24S) and DO ranged from 0.39 mg/L (MW-C11/MW-C12) to 7.16 mg/L (MW-33S).

  Increases in DO and ORP were observed at several wells across the monitoring well network when compared to the previous GME. It is noted that negative ORP changes were observed at MW-C11, MW-C12 and MW-47S indicating reducing conditions.

Based on the limited MNA dataset (two GMEs completed to date), trends are unable to be assessed at this time. MNA parameters will continue to be assessed as part of the ongoing monitoring program to evaluate the presence of trends that would be indicative that MNA is occurring at the Site.

6. Removal of Sediment and Residual Solids

Monitoring wells MW- C11, MW-31S, MW-33S, MW-40, MW-45S and MW-48S were subject to additional pumping following sampling to remove sediment and residual solids to the extent practicable. This was undertaken in response to the recommendation provided in AECOM, 2020b to improve the hydraulic connection between the well and the surrounding geological material.

A Whale Pump was deployed in each well and each well was surged and pumped until dry. Approximately five gallons was removed from each well, and no odor or sheen was observed during this additional pumping. Sedimentation observed during pumping was initially high and progressively decreased until the water was observed to have very little sediment.

This was undertaken following sampling due to the disturbance of the water column through use of the Whale Pump which may have impacted analytical results.

7. Conclusions and Recommendations

Based on the results of the 2021 Q1 GME, the following conclusions are provided:

- Consistent with the previous GME, MGP-related constituents were reported below the applicable AWQS/GV at MW-25S, MW-28S, MW-31S, MW-33S, MW-40, MW-45S and MW-47S.
- Select MGP-related constituents were reported above the applicable AWQS/GV at MW-C11, MW-C12, MW-C16, MW-22S, MW23-S, MW-24S, MW-46S and MW-48S.

- When compared with the previous GME:
  - Increases in select MGP-related constituents were reported at MW-C12 (benzene, ethylbenzene, acenaphthene) and MW-46S (BTEX and select PAHs including naphthalene).
  - Decreases in select MGP-related constituents were reported at MW-22S (benzene, ethylbenzene, xylenes), MW-23S (ethylbenzene, xylenes, naphthalene), and MW-48S (benzene, acenaphthene, naphthalene).

In accordance with the Draft SMP, additional data will be collected to understand seasonal fluctuations and inform an appraisal of constituent concentration and MNA trends at the Site. Groundwater sampling at the 15 specified well locations will continue to be monitored on the schedule outlined in the Draft SMP.

Should you have any questions regarding this correspondence, please contact Melissa Saunders at melissa.saunders@aecom.com.

Sincerely,

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cc:
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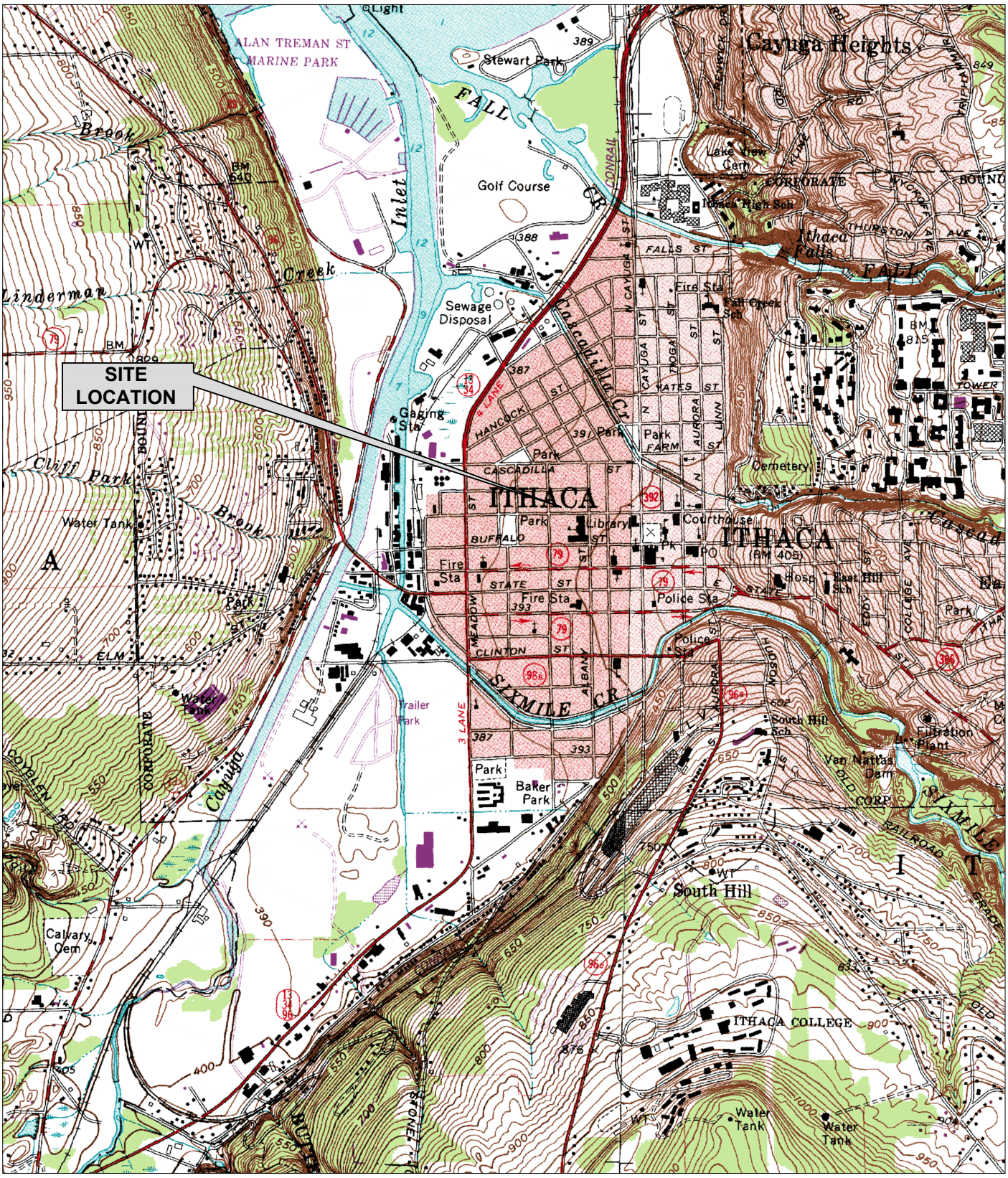
Figures
Figure 1: Site Location Plan
Figure 2: Monitoring Well Location Plan
Figure 3: Shallow Aquifer Groundwater Contour Plan – March 2021
Figure 4: Groundwater Exceedance Plan – BTEX and PAHs – March 2021

Tables
Table 1: Groundwater Gauging Table
Table 2: BTEX, PAHs and Total Cyanide
Table 3: Monitored Natural Attenuation and Field Parameters

Appendices
Appendix A: Groundwater Sampling Purge Forms
Appendix B: Analytical Laboratory Report
Appendix C: Data Usability Summary Report

References
AECOM, 2019. *Site Management Plan, Ithaca Court Street Former MGP Site, Ithaca, Tompkins County, New York, NYSDEC Site #7-55-008.*
AECOM, 2020a. *Work Plan, Groundwater Monitoring Event, September 2020, Ithaca Court Street Former MGP Site-OU-2, Ithaca New York*.
AECOM, 2020b. *Subject: Groundwater Monitoring Event Report – September/October 2020 Ithaca Court Street Former MGP Site – OU-2, Ithaca, New York.*

Figures



MAP REFERENCE:
IMAGE SHOWN FROM U.S.G.S.7.5 MINUTE QUADRANGLE, ITHACA - WEST AND EAST SERIES

0 2000' 4000'

NEW YORK STATE ELECTRIC & GAS CORP.
FORMER COURT STREET MGP SITE - OU-2
ITHACA, NEW YORK
Project No.: 60615225 Date: MAY 2021

SITE LOCATION PLAN

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Figure: 1

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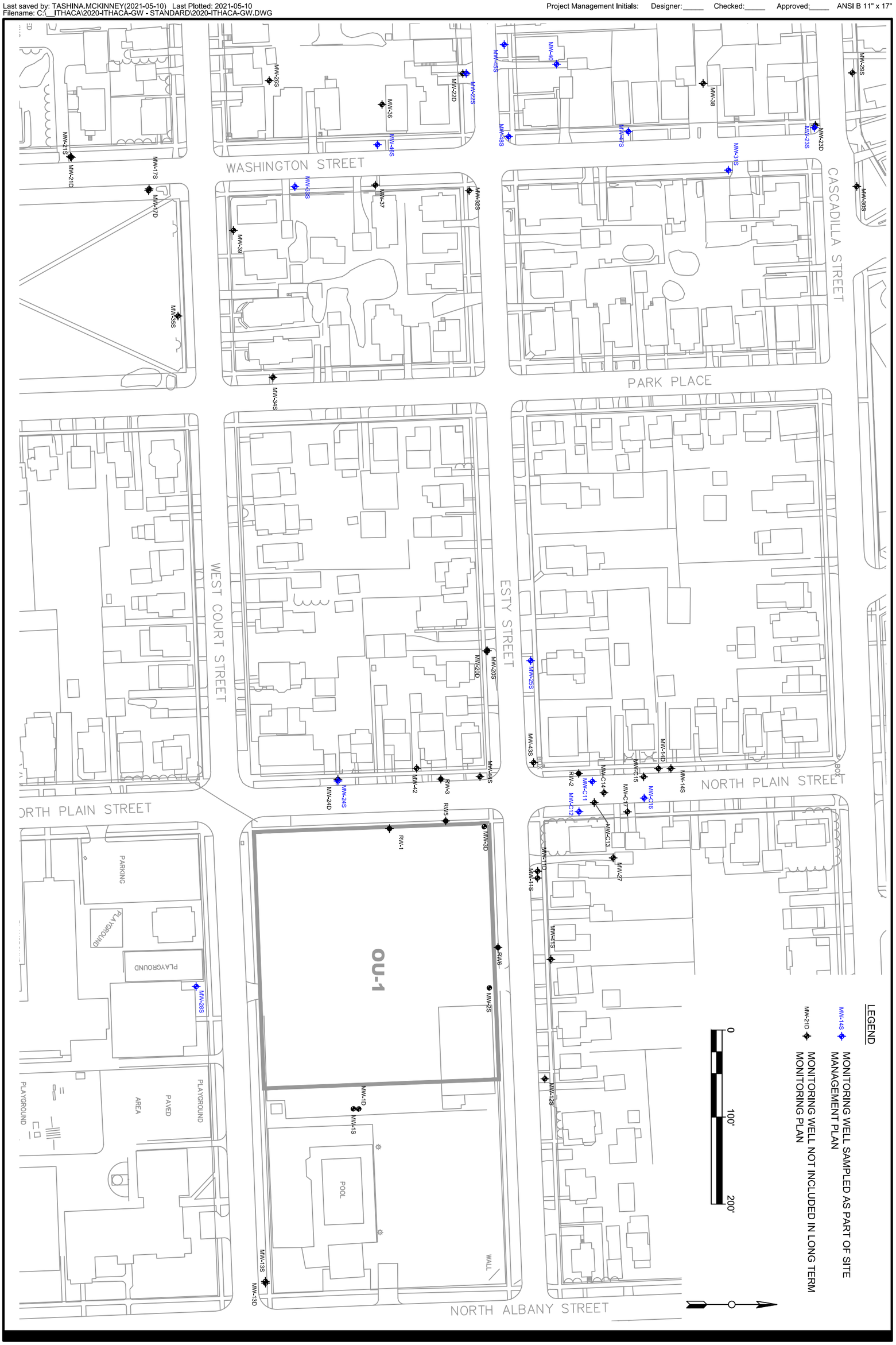

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FORMER COURT STREET MGP SITE - OU-2
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MONITORING WELL LOCATION PLAN

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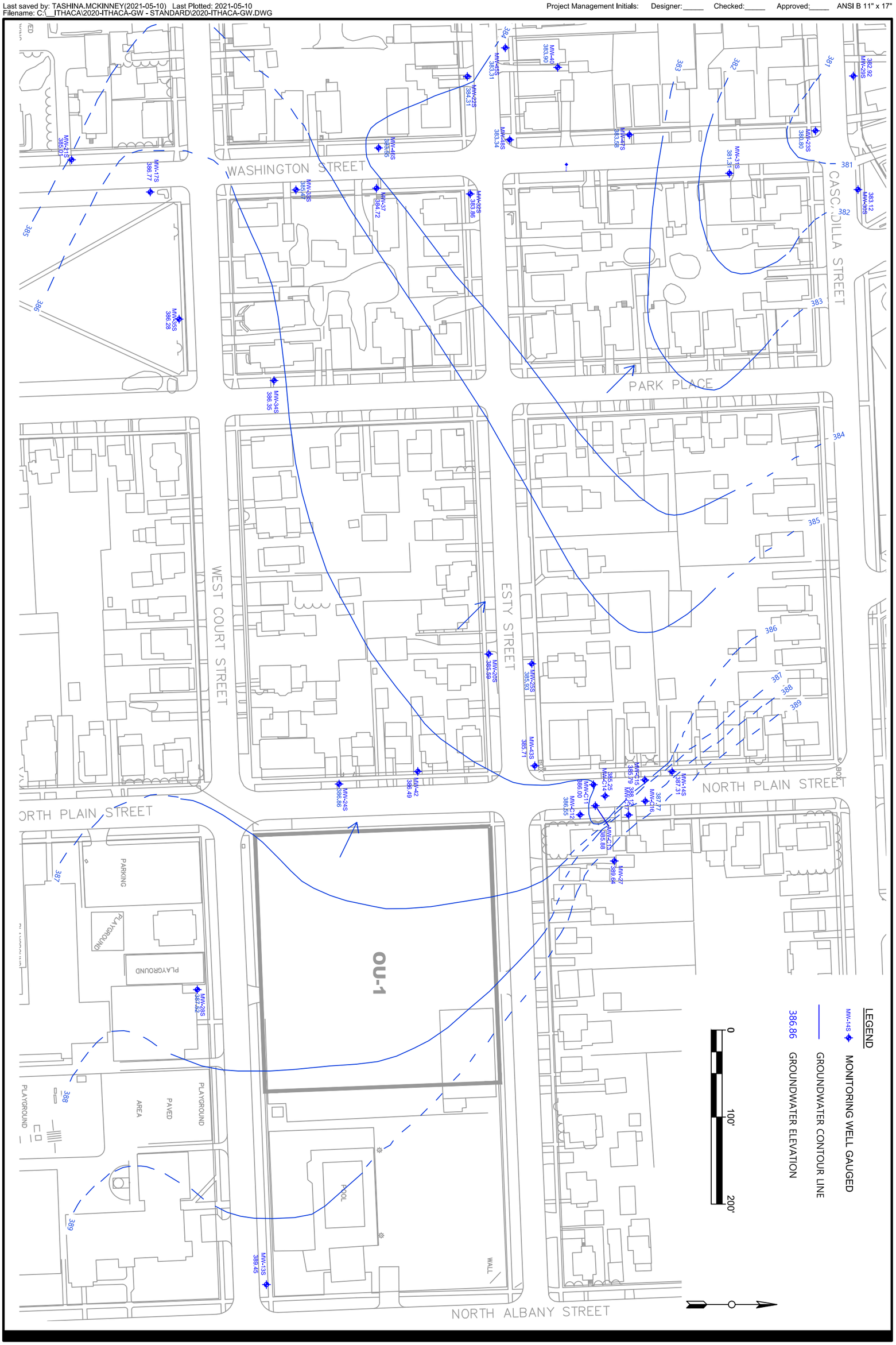
Figure: 2



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ITHACA, NEW YORK
Project No.: 60615225 Date: MAY 2021

SHALLOW AQUIFER GROUNDWATER CONTOUR PLAN - MARCH 2021

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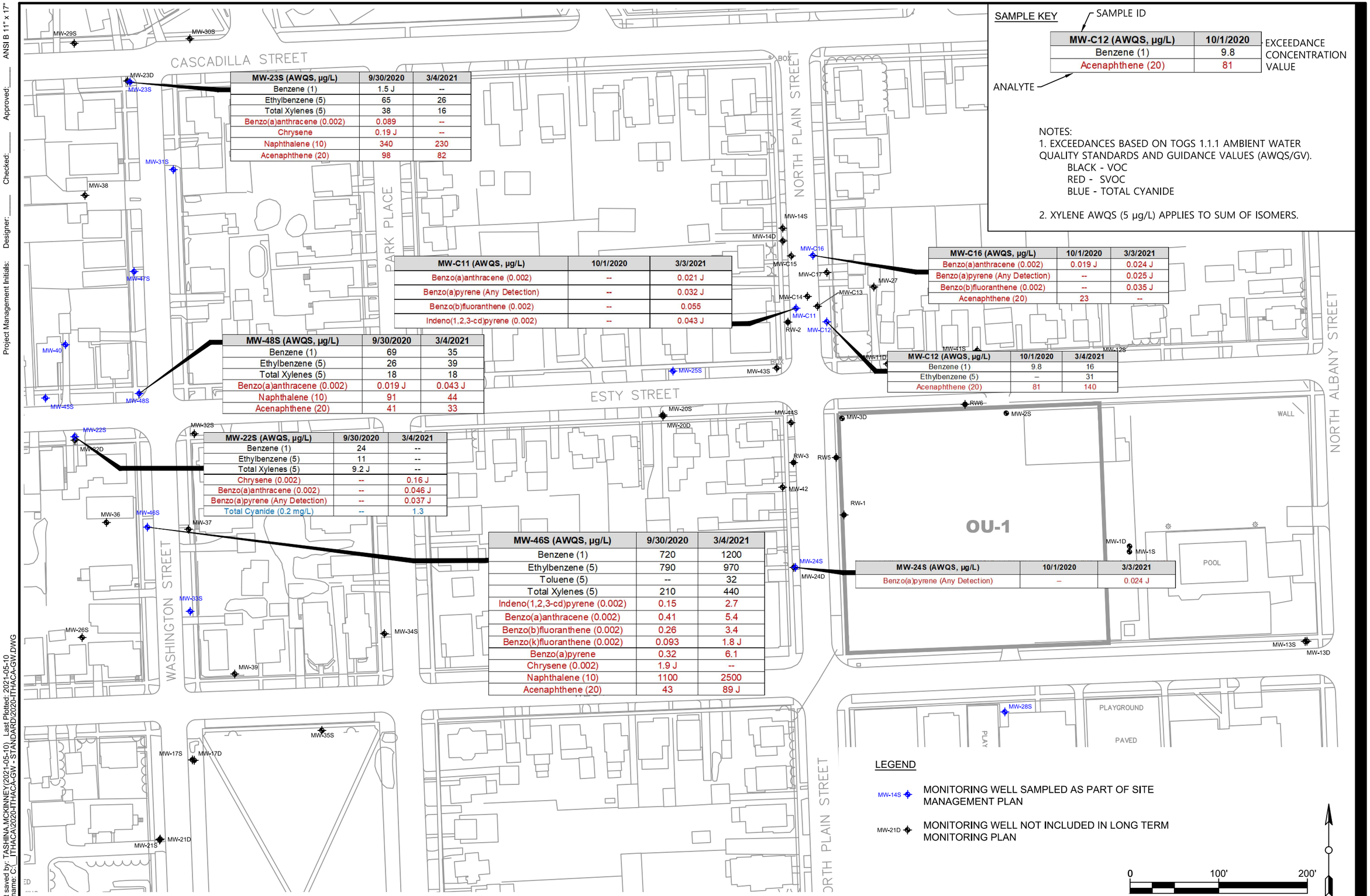
Figure: 3



MW-23S (AWQS, µg/L)	9/30/2020	3/4/2021
Benzene (1)	1.5 J	--
Ethylbenzene (5)	65	26
Total Xylenes (5)	38	16
Benzo(a)anthracene (0.002)	0.089	--
Chrysene	0.19 J	--
Naphthalene (10)	340	230
Acenaphthene (20)	98	82

MW-C11 (AWQS, µg/L)	10/1/2020	3/3/2021
Benzo(a)anthracene (0.002)	--	0.021 J
Benzo(a)pyrene (Any Detection)	--	0.032 J
Benzo(b)fluoranthene (0.002)	--	0.055
Indeno(1,2,3-cd)pyrene (0.002)	--	0.043 J

MW-48S (AWQS, µg/L)	9/30/2020	3/4/2021
Benzene (1)	69	35
Ethylbenzene (5)	26	39
Total Xylenes (5)	18	18
Benzo(a)anthracene (0.002)	0.019 J	0.043 J
Naphthalene (10)	91	44
Acenaphthene (20)	41	33

MW-22S (AWQS, µg/L)	9/30/2020	3/4/2021
Benzene (1)	24	--
Ethylbenzene (5)	11	--
Total Xylenes (5)	9.2 J	--
Chrysene (0.002)	--	0.16 J
Benzo(a)anthracene (0.002)	--	0.046 J
Benzo(a)pyrene (Any Detection)	--	0.037 J
Total Cyanide (0.2 mg/L)	--	1.3

MW-46S (AWQS, µg/L)	9/30/2020	3/4/2021
Benzene (1)	720	1200
Ethylbenzene (5)	790	970
Toluene (5)	--	32
Total Xylenes (5)	210	440
Indeno(1,2,3-cd)pyrene (0.002)	0.15	2.7
Benzo(a)anthracene (0.002)	0.41	5.4
Benzo(b)fluoranthene (0.002)	0.26	3.4
Benzo(k)fluoranthene (0.002)	0.093	1.8 J
Benzo(a)pyrene	0.32	6.1
Chrysene (0.002)	1.9 J	--
Naphthalene (10)	1100	2500
Acenaphthene (20)	43	89 J

MW-C16 (AWQS, µg/L)	10/1/2020	3/3/2021
Benzo(a)anthracene (0.002)	0.019 J	0.024 J
Benzo(a)pyrene (Any Detection)	--	0.025 J
Benzo(b)fluoranthene (0.002)	--	0.035 J
Acenaphthene (20)	23	--

MW-C12 (AWQS, µg/L)	10/1/2020	3/4/2021
Benzene (1)	9.8	16
Ethylbenzene (5)	--	31
Acenaphthene (20)	81	140

MW-24S (AWQS, µg/L)	10/1/2020	3/3/2021
Benzo(a)pyrene (Any Detection)	--	0.024 J

SAMPLE KEY

SAMPLE ID

MW-C12 (AWQS, µg/L)	10/1/2020
Benzene (1)	9.8
Acenaphthene (20)	81

EXCEEDANCE CONCENTRATION VALUE

ANALYTE

NOTES:
1. EXCEEDANCES BASED ON TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES (AWQS/GV).
BLACK - VOC
RED - SVOC
BLUE - TOTAL CYANIDE

2. XYLENE AWQS (5 µg/L) APPLIES TO SUM OF ISOMERS.

LEGEND

MW-14S — MONITORING WELL SAMPLED AS PART OF SITE MANAGEMENT PLAN

MW-21D — MONITORING WELL NOT INCLUDED IN LONG TERM MONITORING PLAN

0 100' 200'

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Figure: 4

GROUNDWATER EXCEEDANCE PLAN
BTEX, PAHs AND TOTAL CYANIDE
MARCH 2021

NEW YORK STATE ELECTRIC & GAS CORP.
FORMER COURT STREET MGP SITE - OU-2
ITHACA, NEW YORK
Project No.: 60615225 Date: MAY 2021

Tables

Table 1: Groundwater Gauging Table
2021 Q1 Groundwater Monitoring Event
Ithaca Court Street Former MGP Site - OU2
Ithaca, New York

Well ID	Date Gauged	Total Depth[1] (ft bTOC)	Sump Interval (ft bTOC)	Screen Interval (ft bTOC)	Depth to Water (ft bTOC)	Depth to Water (ft bgs)	NAPL Observed (Y/N)	NAPL Thickness (ft)	Well Inspection and Sampling Notes
SMP Monitoring Plan Locations - Gauged and Sampled									
MW - C11	3/2/2021	17.23	17 - 15	15 - 10	5.14	5.66	N	NA	Well in good condition. Water observed to be tinted and a gasoline (petroluem-like) odor was noted during purging. No sheen was observed. Approx. 5 gallons removed post-samping to remove previously noted sedimentation/residual solids^ before well ran dry.
MW - C12	3/2/2021	17.62	17 - 15	15 - 10	5.65	5.86	N	NA	Well in good condition. Water observed to be tinted and a gasoline/sweet (petroluem-like) odor noted during purging. No sheen observed.
MW - C16	3/2/2021	15.95	16 - 14	14 - 9	3.54	3.76	N	NA	Dedicated tubing was rusty (likely iron accumulation). Purged water was tinted yellow/brown. No odor or sheen noted. Dedicated tubing to be replaced.
MW - 22S	3/2/2021	13.64	--	14 - 4	2.84	2.43	N	NA	Well located in a flower bed and in good condition. Purge water clear, and no odor or sheen noted.
MW - 23S	3/2/2021	13.69	--	14 - 4	6.22	6.82	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - 24S	3/2/2021	13.71	--	14 - 4	5.54	NC	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - 25S	3/2/2021	9.72	--	10 - 3	5.29	5.51	N	NA	Purge water initially tinted brown and became clear. No odor or sheen noted. Well ran dry on 3/3/21, allowed to recharge before being sampled 3/4/21.
MW - 28S	3/2/2021	19.65	--	20 - 7	7.65	8.19	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - 31S	3/2/2021	11.34	--	12 - 4	6.61	6.92	N	NA	Well in good condition. Initial heavy silt during purging and became clear. No odor or sheen noted. Approx. 5 gallons removed post-samping to remove previously noted sedimentation/residual solids^ before well ran dry.
MW - 33S	3/2/2021	9.51	--	10 - 2.5	2.08	2.35	N	NA	Well in good condition. Very rusty water (likely iron accumulation) near bottom of screen and no odor or sheen noted. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry.
MW - 40	3/2/2021	8.39	--	9 -3	3.09	3.49	N	NA	Well in good condition. Purge water intially brown and then clear. A 'cleaning supply' (chemical-like) odor was noted and no sheen observed. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry.
MW - 45S	3/2/2021	14.72	15 - 14	14 - 4	3.39	3.70	N	NA	Well in good condition. Purge water initially brown and then clear. Some rusty particulate (likely iron accumulation) was observed 5 minutes into purging. No odor or sheen noted. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry.
MW - 46S	3/2/2021	17.02	--	18 - 8	3.66	4.03	N	NA	Well in good condition. Purge water tinted light brown and rust particulate (likely iron accumulation) observed. Slight sulfur odor noted. No sheen noted.
MW - 47S	3/2/2021	14.69	--	15 - 5	3.87	4.19	N	NA	Well head rusted. Purge water was clear with rust particulates (likely iron accumulation). No odor or sheen was noted.
MW - 48S	3/2/2021	13.24	15 - 14	14 - 4	3.51	3.81	N	NA	Well in good condition. Purge water initially cloudy and then clear. A slight sulfur odor was noted at the commencement of purging. No sheen was noted. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry.
Additional Locations - Gauged Only									
MW - C13	3/2/2021	15.98	16 - 14	14 - 9	5.21	5.62	N	NA	Good condition
MW - C14	3/2/2021	11.33	--	--	5.95	6.53	N	NA	Good condition
MW - C15	3/2/2021	17.84	--	--	5.29	5.52	N	NA	Good condition
MW - C17	3/2/2021	15.13	--	--	3.89	4.08	N	NA	Good condition
MW - 13S	3/2/2021	13.46	--	15 - 5	6.79	7.11	N	NA	Good condition
MW - 14S	3/2/2021	9.46	--	10 - 3	4.24	NC	N	NA	Good condition
MW - 14D	3/2/2021	33.31	--	--	4.76	NC	N	NA	Good condition
MW - 17S	3/2/2021	8.35	--	--	1.08	1.53	N	NA	PVC shifted, difficult to remove plug and measure. PVC under steel collar.
MW - 17D	3/2/2021	29.48	--	--	1.87	2.17	N	NA	PVC shifted, difficult to remove plug and measure. PVC under steel collar.
MW - 20S	3/2/2021	14.49	--	15 - 5	5.28	NC	N	NA	Good condition, slight sulfur odor noted.
MW - 20D	3/2/2021	33.45	--	34 - 24	4.60	NC	N	NA	Good condition
MW - 21S	3/2/2021	9.47	--	10 - 5	3.30	3.65	N	NA	Good condition
MW - 21D	3/2/2021	29.42	--	30 - 20	2.11	2.66	N	NA	Good condition
MW - 22D	3/2/2021	29.08	--	--	2.99	2.51	N	NA	Well located in flower bed. Good condition
MW - 23D	3/2/2021	29.34	--	--	3.86	6.25	N	NA	Good condition
MW - 24D	3/2/2021	32.65	--	--	4.29	NC	N	NA	Cover not bolted down. Good condition
MW - 27	3/2/2021	8.87	--	10 - 3	2.14	2.58	N	NA	Good condition
MW - 29S	3/2/2021	12.08	--	--	4.42	4.74	N	NA	Good condition
MW - 30S	3/2/2021	9.95	--	12 - 2.5	4.89	5.12	N	NA	Good condition
MW - 32S	3/2/2021	9.47	--	--	3.15	3.56	N	NA	Good condition
MW - 34S	3/2/2021	9.64	--	--	2.96	3.38	N	NA	Good condition
MW - 35S	3/2/2021	4.16	--	8 - 3	2.52	3.07	N	NA	Good condition
MW - 37	3/2/2021	7.80	--	--	2.37	2.96	N	NA	Good condition
MW - 42	3/2/2021	14.11	--	--	5.89	6.36	N	NA	Good condition
MW - 43S	3/2/2021	14.29	--	15 - 5	5.82	6.23	N	NA	Good condition

Notes:
1. Measured at the time of gauging
2. ft bTOC- feet below top of casing
3. ft bgs - feet below ground surface
4. NA - Not applicable
5. -- Information not available.
6. NC - Not calculated as ground surface elevation data not available

Table 2: BTEX, PAHs and Total Cyanide
2021 Q1 Groundwater Monitoring Event
Ithaca Court Street Former MGP Site - OU2
Ithaca, New York

Sample ID	Laboratory Report Number	Sample Date	BTEX µg/L				PAHs µg/L																Cyanide (mg/L)
			Benzene	Ethylbenzene	Toluene	Xylenes, Total	Acenaphthene	Acenaphthylene	Anthracene	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd)pyrene	Cyanide, Total
AWQS/GV[1]			1	5	5	5	20	NS	50	0.002	50	50	10	50	50	0.002	Any Detection	0.002	NS	0.002	NS	0.002	**0.2**
MW-C11	2149189	6/7/2016	**20.9**	**128**	**11.1**	**51**	**2.4**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**111**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**0.027 J**
	175904	10/1/2020	1 U	1 U	1 U	2 U	**3.6**	**0.53 J**	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	0.95 U	2.4 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
	181652	3/3/2021	4 U	4 U	4 U	8 U	**1.3 J**	6 U	10 U	10 U	10 U	10 U	20 U	4 U	10 U	0.05 U	0.05 U	**0.03 J**	0.05 U	0.05 UJ	0.05 U	0.05 U	**0.040**
DUP	181652	3/3/2021	4 U	4 U	4 U	8 U	**1.4 J**	6 U	10 U	10 U	10 U	10 U	20 U	4 U	10 U	**0.021 J**	**0.032 J**	**0.055**	**0.044 J**	0.05 UJ	0.05 U	**0.043 J**	**0.033**
MW-C12	2149189	6/7/2016	**61.6**	**383**	1 U	**16.8**	**56.7**	1.4 U	1.4 U	1.4 U	1.4 U	**5.4**	**180 J**	**2.9**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.016**
	175904	10/1/2020	**9.8**	1 U	1 U	2 U	**81**	**1.0**	**0.096 J**	0.48 U	0.48 U	**10**	**0.19 J**	**0.90**	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.016**
	181652	3/4/2021	**16**	**31**	1 U	1.9 J	**140**	**1.4**	**0.23 J**	0.5 U	0.5 U	**18**	**0.35 J**	**2.3**	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.010**
MW-C16	2149189	6/7/2016	1 U	1 U	1 U	3 U	**3.2**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.007 J**
	175904	10/1/2020	**0.82 J**	2 U	2 U	4 U	**23**	5.7 U	9.5 U	9.5 U	9.5 U	**3.1 J**	19 U	3.8 U	9.5 U	**0.019 J**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.009 J**
	181652	3/3/2021	4 U	4 U	4 U	8 U	**15**	6 U	10 U	10 U	10 U	**2.7 J**	20 U	4 U	10 U	**0.024 J**	**0.025 J**	**0.035 J**	0.05 U	0.05 UJ	0.05 U	0.05 U	**0.010**
MW-22S	2150102	6/9/2016	1 U	1 U	1 U	3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**0.540**
	175829	9/30/2020	**24**	**11**	10 U	**9.2 J**	**2.4**	0.29 U	0.48 U	0.48 U	0.48 U	**0.058 J**	**0.83 J**	0.19 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.076**
DUP	175829	9/30/2020	**21**	**11**	**0.51 J**	**8.6**	**3.2**	0.29 U	0.48 U	0.48 U	0.48 U	**0.095 J**	**0.82 J**	0.19 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.092**
	181652	3/4/2021	1 U	1 U	1 U	2 U	0.5 U	**0.13 J**	**0.052 J**	**0.16 J**	**0.19 J**	0.5 U	1 U	0.2 U	**0.29 J**	**0.046 J**	**0.037 J**	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	**1.3**
MW-23S	2150484	6/10/2016	5 U	**82.4**	5 U	**58.9**	**68.8**	1.4 U	**3.8**	1.4 U	**1.8**	**18**	1.4 U	**10.7**	**2.6**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.005 U
	175829	9/30/2020	**1.5 J**	**65**	2 U	**38**	**98**	**1.9**	**6.5**	**0.19 J**	**3.0**	**26**	**340**	**26**	**4.4**	**0.089**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
	181652	3/4/2021	2 U	**26**	2 U	**16**	**82**	15 U	**3.5 J**	25 U	25 U	**17 J**	**230**	**15**	25 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	**0.005 J**
MW-24S	2149634	6/8/2016	1 U	1 U	1 U	3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.005 U
	175904	10/1/2020	1 U	1 U	1 U	2 U	**0.046 J**	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.19 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
	181652	3/3/2021	1 U	1 U	1 U	2 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.5 U	0.05 U	**0.024 J**	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.010 U
MW-25S	2149634	6/8/2016	1 U	1 U	1 U	3 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.018 J**
	175904	10/1/2020	1 U	1 U	1 U	2 U	0.48 U	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.19 U	0.48 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	**0.026**
	181652	3/4/2021	0.5 U	0.3 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	**0.026**
MW-28S	2150484	6/8/2016	1 U	1 U	1 U	3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.005 U
	175904	10/1/2020	1 U	1 U	1 U	2 U	0.48 U	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.19 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
	181652	3/3/2021	1 U	1 U	1 U	2 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.010 U
MW-31S	2150484	6/10/2016	1 U	1 U	1 U	3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.005 U
	175829	9/30/2020	1 U	1 U	1 U	2 U	0.48 U	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.19 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.006 J**
	181652	3/4/2021	1 U	1 U	1 U	2 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.010 U
MW-33S	2150102	6/9/2016	1 U	1 U	1 U	3 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.005 U
	175829	9/30/2020	1 U	1 U	1 U	2 U	0.48 U	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	**0.10 J**	0.19 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.007 J**
	181652	3/4/2021	1 U	1 U	1 U	2 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.010 U
MW-40	2150484	6/9/2016	1 U	1 U	1 U	3 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.005 U
	175829	9/30/2020	1 U	1 U	1 U	2 U	0.48 U	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	**0.61 J**	0.19 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
	181652	3/4/2021	1 U	1 U	1 U	2 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.010 U
MW-45S	2150484	6/9/2016	1 U	1 U	1 U	3 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.005 U
	175829	9/30/2020	1 U	1 U	1 U	2 U	**0.0360 J**	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	**0.20 J**	0.19 U	**0.10 J**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.007 J**
	181652	3/3/2021	1 U	1 U	1 U	2 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
MW-46S	2150102	6/9/2016	**358**	**428**	**29.5**	**307**	**34.9**	**3.2**	**1.8**	1.5 U	1.5 U	**8.3**	**954**	**7.1**	**1.9**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.005 U
	175829	9/30/2020	**720**	**790**	20 U	**210**	**43**	**2.8 J**	**2.2 J**	**1.9 J**	**2.3 J**	**9.7**	**1100**	**7.6**	**3.8 J**	**0.41**	**0.32**	**0.26**	**0.15**	**0.093**	**0.045 J**	**0.15**	0.010 U
	181652	3/4/2021	**1200**	**970**	**32**	**440**	**89 J**	**12 J**	**8.2 J**	100 U	100 U	**20 J**	**2500**	**14 J**	**22 J**	**5.4**	**6.1**	**3.4**	**2.6**	**1.8 J**	**0.95**	**2.7**	0.010 U
MW-47S	2150484	6/9/2016	1 U	1 U	1 U	3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.005 UJ
	175829	9/30/2020	1 U	1 U	1 U	2 U	**0.75 J**	1.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**1.6 J**	1.0 U	2.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
	181652	3/4/2021	1 U	1 U	1 U	2 U	**0.91 J**	1.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	1.00 U	2.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.010 U
MW-48S	2150102	6/9/2016	**174**	**275**	5 U	**31.7**	**32.7**	1.6 U	**1.6**	1.6 U	1.6 U	**7.6**	**16.4**	**6.9**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.005 U
	175829	9/30/2020	**69**	**26**	2 U	**18**	**41**	**1.5**	**1.4**	0.48 U	**0.72**	**3.9**	**91**	**4.6**	**0.90**	**0.019 J**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
	181652	3/3/2021	**35**	**39**	2 U	**18**	**33**	**1.4**	**1.4**	0.5 U	**0.61**	**4**	**44**	**5.1**	**0.76**	**0.043 J**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U

Notes:
1. Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS/GV) for water class GA.
2. **Bold**- Analyte was detected in laboratory analysis
3. Highlight- Analyte was detected above the AWQS/GV
4. Xylene AWQS (5 µg/L) applies to the sum of isomers
5. NS - No Standard
6. U - Not detected above laboratory reporting limit.
7. J - Result is estimated, detection was below the reporting limit but above the method detection limit.
8. UJ- The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

Table 3: Monitored Natural Attenuation and Field Parameters
2021 Q1 Groundwater Monitoring Event
Ithaca Court Street Former MGP Site - OU2
Ithaca, New York

			MNA Parameters									Field Parameters				
Sample ID	**Laboratory Report Number**	**Sample Date**	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite as N (mg/L)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	Alkalinity, Total (mg/L)	Ferrous Iron (mg/L)	Iron (mg/L)	Methane (µg/L)	pH (pH units)	Turbidity (NTU)	ORP (MeV)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)
AWQS/GV[1]			250	2	10	1	10	NS	NS	0.3	NS	NS	NS	NS	NS	NS
MW-C11	175904	10/1/2020	**121**	**0.54**	**0.024 J**	0.05 U	**0.024 J**	**404**	0.10 U	**4.70**	**98**	6.93	9.81	-87.9	2.29	0.2
	181652	3/3/2021	**1880**	**3.4**	--	--	0.05 U	**700**	**0.17 J**	**13.60**	**460**	6.68	42.1	-109.4	7.333	0.39
MW-C12	175904	10/1/2020	**238**	**2.5**	0.05 U	0.05 U	0.05 U	**605**	0.10 U	**2.80**	**1000**	7.11	5.00	-108.5	1.72	0.21
	181652	3/4/2021	**214**	**1.5**	--	--	0.05 U	**538**	0.10 UJ	**2.10**	**820**	6.98	4.76	-109.4	1.116	0.39
MW-C16	175904	10/1/2020	**1320**	**0.77**	**0.055**	**0.021 J**	**0.034 J**	**563**	**0.28 J**	**25.8**	**380**	6.94	15.9	-124.3	3.57	0.4
	181652	3/3/2021	**1470**	**0.58**	--	--	0.05 U	**615**	0.10 UJ	**25.8**	**11**	6.93	61.8	-75.2	3.914	1.4
MW-22S	175829	9/30/2020	10 U	**3.4**	**0.025 J**	0.05 U	**0.025 J**	**343**	**0.37 J**	**7.7**	**7500**	6.77	1.4	-73.1	0.85	0.39
	181652	3/4/2021	**58.3**	0.02 U	--	--	**18.8**	**190**	0.10 UJ	**0.73**	4.0 U	6.52	3.72	14.5	0.731	5.62
MW-23S	175829	9/30/2020	**4.1 J**	**1.1**	**0.36**	0.05 U	**0.36**	**238**	**0.19 J**	**1.8**	**3100**	6.87	6.95	-63.7	0.69	1.08
	181652	3/4/2021	**5.8 J**	**1.1**	--	--	**0.33**	**234**	0.10 UJ	**1.9**	**2900**	7.02	9.17	-53.1	0.666	0.81
MW-24S	175904	10/1/2020	**0.87 J**	**2.7**	**0.30**	**0.021 J**	**0.28**	**301**	**0.12 J**	**29.4**	**1400**	6.91	45.9	-135.6	0.95	0.32
	181652	3/3/2021	**39.6**	0.02 U	--	--	**1.8**	**317**	0.10 UJ	**1.8**	4.0 U	7.10	34.3	79.8	0.986	6.85
MW-25S	175904	10/1/2020	**121**	**0.52**	0.05 U	**0.020 J**	0.05 U	**550**	**0.15 J**	**6.5**	**30**	6.89	5.05	-40.6	3.51	0.3
	181652	3/4/2021	**206**	0.02 UJ	--	--	**0.12**	**616**	0.10 UJ	**1.5**	4.0 U	6.83	5.97	29.1	3.183	2.97
MW-28S	175904	10/1/2020	10 U	**0.88**	**0.031 J**	**0.022 J**	0.050 U	**271**	**0.10 J**	**1.8**	**4000**	7.47	0.76	-134.4	0.79	0.28
	181652	3/3/2021	**14.4**	**0.88**	--	--	**0.13**	**260**	0.10 UJ	**1.5**	**3900**	7.58	8.8	-91.8	0.692	0.37
MW-31S	175829	9/30/2020	**10.2**	**0.096**	**0.025 J**	0.05 U	**0.025 J**	**303**	**0.086 J**	**1.5**	**580**	6.52	10.1	-11.4	0.67	0.52
	181652	3/4/2021	**16.3**	**0.051**	--	--	**0.18**	**258**	0.10 UJ	**0.39**	**36**	6.91	21.2	18.3	0.549	0.98
MW-33S	175829	9/30/2020	**21.2**	**3.9**	**0.049 J**	**0.022 J**	**0.027 J**	**421**	**0.64 J**	**20.9**	**190**	6.88	4.23	-108.2	0.92	0.77
	181652	3/4/2021	**44.9**	**0.09**	--	--	**0.22**	**364**	0.10 UJ	**0.97**	**1.7 J**	7.33	57.2	55.1	0.849	7.16
MW-40	175829	9/30/2020	**3.6**	**10.1**	**0.14**	0.05 U	**0.14**	**217**	**0.13 J**	**20.4**	**950**	6.44	60.1	-70.1	0.376	0.44
	181652	3/4/2021	**13.9**	**0.11**	--	--	**0.52**	**147**	0.10 UJ	**2.5**	**5.5**	6.39	4.99	28.6	0.314	1.12
MW-45S	175829	9/30/2020	10 U	**3.4**	**0.098**	0.05 U	**0.098**	**377**	**0.21 J**	**30.1**	**5800**	6.7	57.2	-81.7	1.08	0.5
	181652	3/3/2021	**11.2**	**0.44**	NA	0.055	**0.055**	**365**	0.10 UJ	**10.4**	**24**	6.72	53.2	-20.5	0.861	1.39
MW-46S	175829	9/30/2020	**12.7**	**3.6**	**0.049 J**	0.05 U	**0.049 J**	**342**	**0.086 J**	**7.0**	**7900**	6.75	4.72	-89.9	1.06	0.32
	181652	3/4/2021	10 U	**5**	--	--	0.05 U	**356**	**0.20 J**	**10.7**	**13000**	6.78	54.3	-89.9	0.6	0.49
MW-47S	175829	9/30/2020	**17.8**	**7.6**	**0.14**	0.05 U	**0.14**	**305**	**0.092 J**	**40.6**	**8300**	6.47	47.8	-114.1	0.84	0.12
	181652	3/4/2021	**7.5 J**	**4.6**	--	--	0.05 U	**292**	0.10 UJ	**14.8**	**12000**	7.07	33.2	-131.8	0.819	0.52
MW-48S	175829	9/30/2020	40 U	**2.7**	0.05 U	0.05 U	0.05 U	**396**	0.10 U J	**6.9**	**5000**	7.08	10	-114.6	3.33	0.38
	181652	3/3/2021	**12.1 J**	**1.4**	--	--	**0.036 J**	**376**	0.10 U J	**3.4**	**3100**	7.21	7.67	-83.3	1.678	0.84

Notes:
1. Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS/GV) for water class GA.
2. **Bold**- Analyte was detected in laboratory analysis
3. Highlight- Highlight- Analyte was detected above the AWQS/GV
4. NS - No Standard
5. -- Not Analyzed
6. U- Not detected above laboratory reporting limit.
7. J - Result is estimated, detection was below the reporting limit but above the method detection limit.
8. UJ- The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
9. MNA - Monitored Natural Attenuation
10. ORP - Oxidation Reduction Potential

Appendix A Groundwater Sampling Purge Forms

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca NYSEG - 60615225

Monitoring Well Number: MW-C11 Date: 3/3/21

Samplers: JK/PM

Sample Number: MW-C11 030321 QA/QC Collected? DUPLICATE

Purging / Sampling Method: Peripump + Dedicated tubing

1. L = Well Depth:	17.23	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	5.86	feet
4. C = Column of Water in Well:	11.37	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	1.43	gal
6. 3(V) = Target Purge Volume	5.79	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	0950	0955	1000	1005	1010	1015	1020
Water Level (0.33)	feet	6.01	5.92	5.86	5.86	5.85	5.85	5.85
Volume Purged	gal	—	0.10	0.20	0.30	0.40	0.50	0.60
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	46.0	40.3	34.9	38.3	41.2	39.0	42.1
Dissolved Oxygen (+/- 10%)	%	3.7	3.7	3.9	3.6	3.6	3.6	3.5
Dissolved Oxygen (+/- 10%)	mg/L	0.42	0.42	0.44	0.40	0.40	0.41	0.39
Eh / ORP (+/- 10)	MeV	-34.4	-80.5	-92.8	-100.2	-104.3	-106.7	-109.4
Specific Conductivity (+/- 3%)	mS/cm[c]	9.159	9.971	10.29	10.48	10.58	10.63	10.65
Conductivity (+/- 3%)	mS/cm	6.291	6.846	7.100	7.236	7.294	7.323	7.333
pH (+/- 0.1)	pH unit	6.67	6.67	6.68	6.67	6.69	6.69	6.68
Temp (+/- 0.5)	C°	8.57	8.59	8.75	8.78	8.75	8.70	8.70
Color	Visual	tinted	tinted	tinted	tinted	tinted	tinted	tinted
Odor	Olfactory	gasoline	gasoline	gasoline	gasoline	gasoline	gasoline	gasoline

Comments: * DUP taken here

Sample@ 1025

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca NYSEG 60615225

Monitoring Well Number: MW-C12 Date: 3/3/21

Samplers: JK/PM

Sample Number: MW-C12 030321 QA/QC Collected? -

Purging / Sampling Method: Peripump + dedicated tubing

1. L = Well Depth:	17.62	feet
2. D = Riser Diameter (I.D.):	5.65	feet
3. W = Depth to Water:	6.17	feet
4. C = Column of Water in Well:	11.47	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.03	gal
6. 3(V) = Target Purge Volume	6.10	gal

D (inches)	D (feet)
1-inch	0.08
~~2-inch~~	~~0.17~~
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings					✓	✓	✓
Time	24 hr	0828	0833	0838	0843	0848	0853	0858	0903
Water Level (0.33)	feet								
Volume Purged	gal	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80
Flow Rate	mL/min	100	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	33.3	25.9	14.3	8.21	6.70	5.11	4.93	4.76
Dissolved Oxygen (+/- 10%)	%	17.8	8.0	6.5	5.4	4.0	3.9	3.8	3.7
Dissolved Oxygen (+/- 10%)	mg/L	2.03	0.89	0.72	0.58	0.42	0.41	0.40	0.39
Eh / ORP (+/- 10)	MeV	-5.1	-48.9	-64.8	-84.4	-95.6	-100.9	-104.3	-109.4
Specific Conductivity (+/- 3%)	mS/cm^c	1.549	1.515	1.522	1.546	1.544	1.540	1.538	1.536
Conductivity (+/- 3%)	mS/cm	1.071	1.087	1.092	1.119	1.122	1.119	1.116	1.116
pH (+/- 0.1)	pH unit	7.33	7.09	7.10	7.07	7.05	7.02	7.00	6.98
Temp (+/- 0.5)	C°	8.87	10.18	10.25	10.33	10.35	10.38	10.40	10.41
Color	Visual	clearish	tinted	tinted	tinted	tinted	tinted	tinted	
Odor	Olfactory	gasoline/sweet	gas/sweet	gas/sweet	gas/sweet	gas/sweet	gas/sweet	gas/sweet	gas/sweet

Comments:

Sample @ 0910

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MWC-16 Date: 3/3/21

Samplers: AM

Sample Number: MWC-16 030321 QA/QC Collected? —

Purging / Sampling Method: Peri pump, low flow

1. L = Well Depth:	15.95	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	5.53	feet
4. C = Column of Water in Well:	10.42	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	1.77	gal
6. 3(V) = Target Purge Volume	5.31	gal

D (inches)	D (feet)
1-inch	0.08
~~2-inch~~	~~0.17~~
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	~~2-inch~~	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings							
Time	24 hr	0830	0835	0840	0845	0950	0955	1000	1005
Water Level (0.33)	feet	5.53	5.63	5.65	5.67	5.69	5.72	5.73	5.75
Volume Purged	gal	—	0.5	0.75	1.0	1.25	1.50	1.75	2.00
Flow Rate	mL/min	100	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	115.0	89.8	80.2	80.1	73.3	65.8	63.2	61.8
Dissolved Oxygen (+/- 10%)	%	43.4	30.5	25.7	22.9	18.3	15.0	14.4	12.8
Dissolved Oxygen (+/- 10%)	mg/L	4.82	3.43	2.91	2.65	2.06	1.75	1.45	1.40
Eh / ORP (+/- 10)	MeV	-63.0	-45.7	-45.0	-43.9	-54.6	-66.1	-69.9	-75.2
Specific Conductivity (+/- 3%)	mS/cm^c	5.799	5.744	5.728	5.630	5.559	5.537	5.533	5.532
Conductivity (+/- 3%)	mS/cm	4.056	4.014	3.977	3.918	3.887	3.895	3.903	3.914
pH (+/- 0.1)	pH unit	7.10	6.98	6.98	6.92	6.92	6.92	6.97	6.93
Temp (+/- 0.5)	C°	4.29	4.22	4.07	4.08	4.25	4.43	4.48	4.52
Color	Visual	Yellow tint.	Brown	Brown	Brown	Brown	Brown	Brown	
Odor	Olfactory	—	—	—	—	—	—	—	

Comments: Rusty tubing, No Sheen or Smell.

Sampled @ 1005.

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MW-22S Date: 3/4/21

Samplers: Jillian Kosinski & Pat McHugh

Sample Number: MW-22S 0330421 QA/QC Collected? —

Purging / Sampling Method: Peri Pump & Dedicated Tubing

1. L = Well Depth:	13.60	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.31	feet
4. C = Column of Water in Well:	10.29	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	1.75	gal
6. 3(V) = Target Purge Volume	5.25	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings				✓	✓	✓
Time	24 hr	10:13	10:18	10:23	1028	1033	1038	1043
Water Level (0.33)	feet	3.31	3.38	3.43	3.46	3.50	3.52	3.54
Volume Purged	gal	—	0.10	0.20	0.30	0.40	0.50	0.60
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	24.1	14.9	11.6	8.02	5.50	4.08	3.72
Dissolved Oxygen (+/- 10%)	%	43.9	44.1	45.6	47.7	46.6	47.2	46.5
Dissolved Oxygen (+/- 10%)	mg/L	5.22	5.28	5.53	5.78	5.64	5.71	5.62
Eh / ORP (+/- 10)	MeV	0.5	0.5	3.4	6.4	9.8	12.5	14.5
Specific Conductivity (+/- 3%)	mS/cm[c]	1.086	1.086	1.091	1.097	1.106	1.112	1.115
Conductivity (+/- 3%)	mS/cm	0.728	0.721	0.714	0.719	0.725	0.729	0.731
pH (+/- 0.1)	pH unit	6.80	6.74	6.67	6.58	6.60	6.57	6.52
Temp (+/- 0.5)	C°	7.71	7.40	7.00	6.95	6.96	6.99	6.99
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	—	—	—	—	—	—	—

Comments:

Sample @ 1050

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MW-23S   Date: 3/4/21

Samplers: DM

Sample Number: MW-23S 030421   QA/QC Collected? —

Purging / Sampling Method: Peri w/ dedicated tubing

1. L = Well Depth: 13.69 feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Depth to Water: 6.27 feet
4. C = Column of Water in Well: 7.44 feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48) 1.26 gal
6. 3(V) = Target Purge Volume 3.77 gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						1125
Time	24 hr	1055	1100	1105	1110	1115	1120	~~1130~~
Water Level (0.33)	feet	6.27	6.29	6.29	6.29	6.32	6.33	6.33
Volume Purged	gal	0.25	0.5	0.75	1.0	1.25	1.50	1.75
Flow Rate	mL/min	150	150	150	150	150	150	150
Turbidity (+/- 10%)	NTU	27.5	17.8	11.6	10.2	10.3	9.42	9.17
Dissolved Oxygen (+/- 10%)	%	14.2	8.2	6.9	6.8	7.4	7.0	6.8
Dissolved Oxygen (+/- 10%)	mg/L	2.16	.99	.82	.81	.89	.83	.81
Eh / ORP (+/- 10)	MeV	-63.7	-63.8	-61.9	-58.4	-57.8	-55.2	-53.1
Specific Conductivity (+/- 3%)	mS/cm^c	.887	.888	.905	.976	.982	.989	.992
Conductivity (+/- 3%)	mS/cm	.586	.591	.604	.650	.655	.661	.666
pH (+/- 0.1)	pH unit	7.29	7.21	7.14	7.09	7.04	7.03	7.02
Temp (+/- 0.5)	C°	7.21	7.45	7.60	7.55	7.46	7.51	7.46
Color	Visual	Clear	clear	clear	clear	Clear	Clear	clear
Odor	Olfactory	—	—	—	—	—	—	—

Comments: No smell, no sheen, Sand and Card. bowed around well.

Sampled @ 1125

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MW-24S Date: 3/3/21

Samplers: DM

Sample Number: MW-24S 030321 QA/QC Collected? —

Purging / Sampling Method: pump with dedicated tubing

1. L = Well Depth:	13.71	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	5.98	feet
4. C = Column of Water in Well:	7.73	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	1.31	gal
6. 3(V) = Target Purge Volume	3.94	gal

D (inches)	D (feet)
1-inch	0.08
~~2-inch~~	~~0.17~~
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	~~2-inch~~	3-inch	4-inch	6-inch
V (gal / ft)	0.041	~~0.163~~	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	1hr Test		V	Readings	1115	1120	1125
Time	24 hr	1055	1100	1105	1110	~~1120~~		
Water Level (0.33)	feet	5.98	6.02	6.04	6.08	6.10		
Volume Purged	gal	0.25	0.5	0.75	1.00	1.25		
Flow Rate	mL/min	100	100	100	100	100		
Turbidity (+/- 10%)	NTU	44.0	42.6	38.1	36.4	34.3		
Dissolved Oxygen (+/- 10%)	%	72.8	57.6	54.4	54.0	54.0		
Dissolved Oxygen (+/- 10%)	mg/L	8.43	6.87	6.54	6.84	6.85		
Eh / ORP (+/- 10)	MeV	29.2	45.9	61.7	75.8	79.8		
Specific Conductivity (+/- 3%)	mS/cm^c	1.464	1.471	1.469	1.456	1.447		
Conductivity (+/- 3%)	mS/cm	1.001	1.004	1.004	0.994	0.986		
pH (+/- 0.1)	pH unit	7.47	7.35	7.15	7.06	7.10		
Temp (+/- 0.5)	C°	8.41	8.57	8.66	8.64	8.65		
Color	Visual	Clear	Clear	Clear	Clear	Clear		
Odor	Olfactory	—	—	—	—	—		

Comments: Clear, no Rust, no Sheen, no Sent.

* Sampled @ 1120

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca NYSEG - 60615225

Monitoring Well Number: MW-25S **Date:** 3/3/21 - 3/4/21

Samplers: JC/DM

Sample Number: MW-25S 030421 **QA/QC Collected?** -

Purging / Sampling Method: Peri Pump + Dedicated Tubing

1. L = Well Depth:	9.72	feet
2. D = Riser Diameter (I.D.):	6.17	feet
3. W = Depth to Water:	5.~~60~~	feet
4. C = Column of Water in Well:	4.43 29	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	6.752	gal
6. 3(V) = Target Purge Volume	7.25	gal

D (inches)	D (feet)
1-inch	0.08
~~2-inch~~	~~0.17~~
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	~~2-inch~~	3-inch	4-inch	6-inch
V (gal / ft)	0.041	~~0.163~~	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings							
Time	24 hr	11:45	11:50	11:55	1200	1205	1210	1215	1220
Water Level (0.33)	feet	5.29	5.42	6.21	6.94	8.63	8.99	9.51	- dry
Volume Purged	gal	-	0.10	0.20	0.30	0.40	0.50	0.60	0.70
Flow Rate	mL/min	100	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	41.2	30.9	21.6	16.0	19.3	12.4	8.33	5.97
Dissolved Oxygen (+/- 10%)	%	80.0	71.2	65.5	54.1	39.4	31.9	26.2	20.3
Dissolved Oxygen (+/- 10%)	mg/L	9.01	8.16	7.55	6.20	4.51	3.80	3.28	2.97
Eh / ORP (+/- 10)	MeV	18.2	20.0	28.8	25.2	26.0	27.2	27.9	29.1
Specific Conductivity (+/- 3%)	mS/cm	4.581	4.416	4.476	4.514	4.554	4.560	4.561	4.559
Conductivity (+/- 3%)	mS/cm	3.211	3.036	3.070	3.133	3.171	3.178	3.178	3.183
pH (+/- 0.1)	pH unit	7.30	7.17	7.07	7.00	6.95	6.97	6.96	6.93
Temp (+/- 0.5)	C°	9.39	8.62	8.54	8.62	8.71	8.90	9.01	9.13
Color	Visual	brown	tinted	tinted	tinted	tinted	clear	clear	clear
Odor	Olfactory	-	-	-	-	-	-	-	-

Comments:

Well runs dry on 3/3/21

Sample well on 3/4/21 @ 0800

- Depth to water on 3/4/21 - 5.60 feet.

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: ~~MW-28~~ MW-28S Date: 3/3/21

Samplers: PM

Sample Number: MW-28S 030321 QA/QC Collected? —

Purging / Sampling Method: ~~Peri~~ Pump.

1. L = Well Depth:	14.65	feet
2. D = Riser Diameter (I.D.):	7.76	feet
3. W = Depth to Water:	6.17	feet
4. C = Column of Water in Well:	11.84	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.02	gal
6. 3(V) = Target Purge Volume	6.06	gal

D (inches)	D (feet)
1-inch	0.08
~~2-inch~~	~~0.17~~
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	~~2-inch~~	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

1 hr Fast

Parameter	Units	Readings							
Time	24 hr	1210	1215	1220	1225	1230	1235	1240	1245
Water Level (0.33)	feet	7.76	7.79	7.81	7.84	7.84	7.84	7.85	7.86
Volume Purged	gal	0.75	0.5	0.75	1.0	1.25	1.50	1.75	2.25
Flow Rate	mL/min	100	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	8.91	6.64	9.06	7.39	9.21	8.04	8.21	8.80
Dissolved Oxygen (+/- 10%)	%	50.5	9.7	5.0	5.2	3.9	~~3.4~~	3.4	3.8
Dissolved Oxygen (+/- 10%)	mg/L	5.42	1.06	0.54	0.55	0.40	6.36	0.33	0.37
Eh / ORP (+/- 10)	MeV	-122.3	-113.0	-92.0	-99.8	-104.8	-83.7	-84.6	-41.2
Specific Conductivity (+/- 3%)	mS/cm^c	0.882	0.874	0.862	0.856	0.859	849	.412	0.924
Conductivity (+/- 3%)	mS/cm	0.647	0.650	0.646	0641	0.645	0.672	.682	.692
pH (+/- 0.1)	pH unit	7.71	7.71	7.68	7.66	7.64	7.62	7.60	7.58
Temp (+/- 0.5)	C°	11.06	11.61	11.81	11.85	11.87	11.79	11.74	11.75
Color	Visual	clear	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	—	—	—	—	—	—		—

Comments: Velocity

Sampled @ 1245

Monitoring Well Purging / Sampling Form

Project Name and Number: [illegible] - NYSEG - 66615225

Monitoring Well Number: MW-31S Date: 3/4/21

Samplers: PM

Sample Number: MW-31S 030421 QA/QC Collected? ✓

Purging / Sampling Method: ~~Peri~~ pump, low flow, dedicated.

1. L = Well Depth:	11.34	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	6.60	feet
4. C = Column of Water in Well:	4.74	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	0.80	gal
6. 3(V) = Target Purge Volume	2.41	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings							
Time	24 hr	805	810	815	820	825	830	835	840
Water Level (0.33)	feet	6.60	6.61	6.62	6.64	6.63	6.65	6.66	6.67
Volume Purged	gal	0.0	0.25	0.50	0.75	1.0	1.25	1.50	1.75
Flow Rate	mL/min	100	100	150	150	150	150	150	150
Turbidity (+/- 10%)	NTU	1111	742	684	206	73.8	28.3	23.3	21.2
Dissolved Oxygen (+/- 10%)	%	13.6	9.3	9.6	8.8	9.8	9.5	8.4	8.0
Dissolved Oxygen (+/- 10%)	mg/L	1.68	1.14	1.16	1.07	1.19	1.15	1.06	.98
Eh / ORP (+/- 10)	MeV	-35.9	-37.1	-30.1	-27.4	12.2	14.3	16.2	18.3
Specific Conductivity (+/- 3%)	mS/cm^c	0.815	0.801	.803	.808	.838	.839	.841	.741
Conductivity (+/- 3%)	mS/cm	0.519	0.519	0.524	0.578	.550	.549	.549	0.549
pH (+/- 0.1)	pH unit	7.53	7.18	7.06	7.01	7.01	6.98	6.94	6.91
Temp (+/- 0.5)	C°	5.95	6.53	6.80	6.89	6.97	6.94	6.88	6.84
Color	Visual	grey	grey	grey	grey	cloudy	cloudy	cloudy	cloudy
Odor	Olfactory								

Comments: Very heavy silt initially, NTU unreadable, not able to lift above silt. Went runny out of water.

Sampled @ 840

Silt Buildup Removed from YSI

Monitoring Well Purging & Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: mw-33S Date: 3/4/21

Samplers: PM

Sample Number: mw-33S 030421 QA/QC Collected? —

Purging / Sampling Method: Peri Pump.

1. L = Well Depth:	9.51	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.22	feet
4. C = Column of Water in Well:	6.29	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	1.07	gal
6. 3(V) = Target Purge Volume	3.20	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

57.2

Parameter	Units	Readings						
Time	24 hr	1220	1225	1230	1235	1240	1245	1250
Water Level (0.33)	feet	3.22	3.25	3.30	3.32	3.35	3.40	
Volume Purged	gal	0	0.25	0.5	1.0	1.25	1.50	
Flow Rate	mL/min	100	100	100	100	100	100	
Turbidity (+/- 10%)	NTU	72.1	70.4	73	66.2	60.7	57.2	
Dissolved Oxygen (+/- 10%)	%	81.8	70.6	67.4	64.5	61.7	57.7	
Dissolved Oxygen (+/- 10%)	mg/L	10.18	8.90	8.50	8.11	7.72	7.16	
Eh / ORP (+/- 10)	MeV	27.7	37.8	40.8	46.8	50.2	55.1	
Specific Conductivity (+/- 3%)	mS/cm	1.322	1.326	1.319	1.320	1.328	1.341	
Conductivity (+/- 3%)	mS/cm	0.829	.826	.821	.829	.839	.849	
pH (+/- 0.1)	pH unit	7.53	7.42	7.34	7.38	7.34	7.33	
Temp (+/- 0.5)	C°	5.49	5.35	5.22	5.51	5.45	5.67	
Color	Visual	Cloudy	Cloudy	cloudy	cloudy	Clear	clear	
Odor	Olfactory	—	—	—	—	—	—	

Comments: Very Rusty water, Should be redeveloped., clears after 1 Hour of purging.

Sampled @ 1250

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MW-40 Date: 3/4/21

Samplers: Jillian Kosinski & Pat McHugh

Sample Number: MW-40 030421 QA/QC Collected? —

Purging / Sampling Method: Peristaltic pump & dedicated tubing

1. L = Well Depth:	8.4	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.34	feet
4. C = Column of Water in Well:	5.06	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	0.86	gal
6. 3(V) = Target Purge Volume	2.58	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	11:25	1130	1135	1140	1145	1150	1155
Water Level (0.33)	feet	3.34	3.39	3.43	3.45	3.50	3.51	3.54
Volume Purged	gal	—	0.20	0.40	0.60	0.80	1.0	1.20
Flow Rate	mL/min	180	180	130	130	130	130	130
Turbidity (+/- 10%)	NTU	191	97.3	41.3	[illegible]*	[illegible]*	6.65	4.99
Dissolved Oxygen (+/- 10%)	%	17.8	8.4	10.5	9.4	9.3	9.2	9.1
Dissolved Oxygen (+/- 10%)	mg/L	2.20	1.04	1.29	1.16	1.15	1.14	1.12
Eh / ORP (+/- 10)	MeV	22.5	21.7	24.3	26.5	26.8	27.3	28.6
Specific Conductivity (+/- 3%)	mS/cm[c]	0.352	0.336	0.331	0.320	0.319	0.317	0.314
Conductivity (+/- 3%)	mS/cm	0.226	0.215	0.213	0.205	0.205	0.203	0.202
pH (+/- 0.1)	pH unit	6.90	6.62	6.55	6.48	6.48	6.46	6.39
Temp (+/- 0.5)	C°	6.16	6.14	6.24	6.22	6.30	6.27	6.27
Color	Visual	brown	brown	brown	brownish	tinted	tinted	clear
Odor	Olfactory	—	" "	" "	" "	" "	" "	" "

*20.5 *9.72

Cleaning Supply?

Comments:

Sample @ 1200

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 66615225

Monitoring Well Number: MW-45S Date: 3/3/21

Samplers: JK & PM

Sample Number: MW-45S 030321 QA/QC Collected? -

Purging / Sampling Method: Peri pump + dedicated tubing

1. L = Well Depth:	14.72	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.69	feet
4. C = Column of Water in Well:	11.03	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	1.87	gal
6. 3(V) = Target Purge Volume	5.62	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings				✓	✓	✓
Time	24 hr	1305	1310	1315	1320	1325	1330	1335
Water Level (0.33)	feet	3.69	4.41	4.81	4.99	5.22	5.46	5.62
Volume Purged	gal	—	0.10	0.20	0.30	0.40	0.50	0.60
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	123	93.8	64.0	61.3	56.7	60.8	53.2
Dissolved Oxygen (+/- 10%)	%	22.7	11.0	9.7	10.0	11.7	12.3	11.9
Dissolved Oxygen (+/- 10%)	mg/L	2.66	1.29	1.14	1.17	1.38	1.43	1.39
Eh / ORP (+/- 10)	MeV	-34.2	-33.4	-29.8	-26.3	-23.6	-21.2	-20.5
Specific Conductivity (+/- 3%)	mS/cm^c	1.301	1.296	1.292	1.278	1.267	1.261	1.260
Conductivity (+/- 3%)	mS/cm	0.904	0.890	0.879 *	0.868	0.863	0.861	0.861
pH (+/- 0.1)	pH unit	7.00	6.88	6.81	6.77	6.74	6.72	6.72
Temp (+/- 0.5)	C°	9.00	8.61	8.29	8.26	8.30	8.34	8.38
Color	Visual	brown	* Clearish	clearish	clearish	clearish	clearish	clearish
Odor	Olfactory	—	—	—	—	—	—	—

* some rusty colored flakes

* 0.879

Comments:

sample @ 1340

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MW-46S Date: 3/4/21

Samplers: JK / PM

Sample Number: MW-46S 030421 QA/QC Collected? —

Purging / Sampling Method: Peri pump + dedicated tubing

1. L = Well Depth:	16.95	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.72	feet
4. C = Column of Water in Well:	13.23	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.14	gal
6. 3(V) = Target Purge Volume	6.73	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	0845	0850	0855	0900	0905	0910	0915
Water Level (0.33)	feet	3.72	3.89	4.02	4.10	4.15	4.19	4.23
Volume Purged	gal	0.0	0.1	0.20	0.30	0.40	0.50	0.60
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	102	78.3	57.5	68.1	63.2	60.0	54.3
Dissolved Oxygen (+/- 10%)	%	5.4	5.2	5.1	5.1	4.8	4.4	4.2
Dissolved Oxygen (+/- 10%)	mg/L	0.61	0.60	0.59	0.59	0.55	0.51	0.49
Eh / ORP (+/- 10)	MeV	19.1	-18.3	-49.0	-63.4	-76.3	-84.0	-89.9
Specific Conductivity (+/- 3%)	mS/cm^c	0.812	0.824	0.835	0.848	0.855	0.866	0.873
Conductivity (+/- 3%)	mS/cm	0.567	0.570	0.574	0.582	0.587	0.594	0.600
pH (+/- 0.1)	pH unit	7.40	7.26	6.94	6.85	6.84	6.80	6.78
Temp (+/- 0.5)	C°	9.22	8.99	8.64	8.58	8.61	8.53	8.64
Color	Visual	light brown	light brown	light brown	light brown	light brown	light brown	light br
Odor	Olfactory	—	—	—	—	—	—	—

*rusty colored flakes in water

Comments:

Sample at 0935

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MW-46S cont'd Date: 3/4/21

Samplers: JK & PM

Sample Number: MW-46S 030421 QA/QC Collected? —

Purging / Sampling Method: Peri Pump & dedicated tubing

1. L = Well Depth:	16.95	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.72	feet
4. C = Column of Water in Well:	13.23	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.46	gal
6. 3(V) = Target Purge Volume	6.73	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	✓	✓	✓	Readings			
Time	24 hr	0920	0925	0930				
Water Level (0.33)	feet	4.26	4.29	4.32				
Volume Purged	gal	0.70	0.80	0.90				
Flow Rate	mL/min	100	100	100				
Turbidity (+/- 10%)	NTU	57.4	54.5	50.8				
Dissolved Oxygen (+/- 10%)	%	3.8	3.8	3.8				
Dissolved Oxygen (+/- 10%)	mg/L	0.44	0.44	0.43				
Eh / ORP (+/- 10)	MeV	-93.0	-94.2	-95.8				
Specific Conductivity (+/- 3%)	mS/cm^c	0.8883	0.890	0.898				
Conductivity (+/- 3%)	mS/cm	0.609	0.613	0.615				
pH (+/- 0.1)	pH unit	6.77	6.70	6.74				
Temp (+/- 0.5)	C°	8.75	8.72	8.74				
Color	Visual	light Br	light Br	light Br				
Odor	Olfactory	—	—	—				

Comments:

Sample @ 0935

Monitoring Well Purging / Sampling Form

Project Name and Number: Athira - NYSEG - 60615225

Monitoring Well Number: MW-47S Date: 3/4/21

Samplers: [illegible]

Sample Number: MW-47S 030421 QA/QC Collected? —

Purging / Sampling Method: Peri, low flow.

1. L = Well Depth:	14.69	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	4.01	feet
4. C = Column of Water in Well:	10.68	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	1.81	gal
6. 3(V) = Target Purge Volume	5.44	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	0930	0935	0940	0945	950	955	1000
Water Level (0.33)	feet	4.01	4.05	4.08	4.21	4.27	4.24	
Volume Purged	gal	0.25	0.50	0.75	1.0	1.25	1.50	
Flow Rate	mL/min	150	150	150	150	100	100	
Turbidity (+/- 10%)	NTU	47.2	42.3	45.1	36.1	35.3	35.2	
Dissolved Oxygen (+/- 10%)	%	20.5	9.3	6.3	5.2	4.8	4.5	
Dissolved Oxygen (+/- 10%)	mg/L	2.43	1.11	0.75	0.62	0.57	0.52	
Eh / ORP (+/- 10)	MeV	-115.1	-121.	-123.7	-127	-130.9	-131.8	
Specific Conductivity (+/- 3%)	mS/cm	.997	1.028	1.145	1.189	1.213	1.223	
Conductivity (+/- 3%)	mS/cm	.658	.683	.765	.786	.816	.819	
pH (+/- 0.1)	pH unit	7.19	7.14	7.11	7.10	7.08	7.07	
Temp (+/- 0.5)	C°	7.20	7.42	7.55	7.32	7.01	7.07	
Color	Visual	Clear	Clear	Clear	clear	clear	clear	
Odor	Olfactory	—	—	—	—	—	—	

Comments: lots of large particulates in out flow

Sampled @ 1000

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: mw-48s Date: 3/3/21

Samplers: PM

Sample Number: mw-48s 030321 QA/QC Collected? MS & MSD

Purging / Sampling Method: low flow + peri. pump + dedicated tubing

1. L = Well Depth:	13.24	feet
2. D = Riser Diameter (I.D.):	2	feet
3. W = Depth to Water:	6.17	feet
4. C = Column of Water in Well:	9.68	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	1.64	gal
6. 3(V) = Target Purge Volume	4.93	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings (1hr first)						
Time	24 hr	1345	1350	1355	1400	1405	1410	1415
Water Level (0.33)	feet	3.56	3.65	3.66	3.68	3.68	3.68	3.69
Volume Purged	gal	-	0.25	0.75	1.25	1.50	2.0	2.5
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	21.1	17.6	26.2	16.3	15.4	16.2	13.3
Dissolved Oxygen (+/- 10%)	%	28.6	6.5	6.5	2.3	8.3	5.5	5.5
Dissolved Oxygen (+/- 10%)	mg/L	3.20	0.77	0.76	0.28	0.99	0.65	0.65
Eh / ORP (+/- 10)	MeV	-94.7	-94.7	-93.3	-93.7	-95.7	-96.4	-92.4
Specific Conductivity (+/- 3%)	mS/cm^c	2.228	2.263	2.305	2.333	2.366	2.395	2.426
Conductivity (+/- 3%)	mS/cm	1.499	1.526	1.554	1.574	1.593	1.614	1.631
pH (+/- 0.1)	pH unit	7.37	7.41	7.32	7.30	7.46	7.31	7.41
Temp (+/- 0.5)	C°	7.87	7.55	7.63	7.45	7.89	7.91	7.92
Color	Visual	Sl cloudy	cloudy/m	cloudy	clear	clear	clear	clear
Odor	Olfactory	—	—	—	—	—	—	—

Sulfur-like.

Comments: No sheen, slight sulfur smell in the beginning

* MS & MSD Here.

Monitoring Well Purging / Sampling Form

Project Name and Number: Ithaca - NYSEG - 60615225

Monitoring Well Number: MW-48S Date: 3-3-21

Samplers: PM

Sample Number: MW-48S 030321 QA/QC Collected? MS/MSD

Purging / Sampling Method: perist. pump + low flow + dedicated tubing

1. L = Well Depth:	13.24	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.56	feet
4. C = Column of Water in Well:	9.68	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	1.643	gal
6. 3(V) = Target Purge Volume	4.93	gal

D (inches)	D (feet)
1-inch	0.08
~~2-inch~~	~~0.17~~
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1420	1425	1430	1435			
Water Level (0.33)	feet	[redacted]	3.74	3.73	3.72			
Volume Purged	gal	3.0	3.5	4.0	4.5			
Flow Rate	mL/min	100	100	100	100			
Turbidity (+/- 10%)	NTU	16.2	7.83	8.13	7.67			
Dissolved Oxygen (+/- 10%)	%	5.5	6.1	6.6	7.1			
Dissolved Oxygen (+/- 10%)	mg/L	.65	0.71	.78	.84			
Eh / ORP (+/- 10)	MeV	-90.1	-83.5	-82.0	-83.3			
Specific Conductivity (+/- 3%)	mS/cm^c	2.447	2.482	2.472	2.481			
Conductivity (+/- 3%)	mS/cm	1.643	1.662	1.673	1.678			
pH (+/- 0.1)	pH unit	7.25	7.28	7.19	7.21			
Temp (+/- 0.5)	C°	7.82	7.76	7.85	7.87			
Color	Visual	Clear	Clear	Clear	Clear			
Odor	Olfactory	—		—	—			

Comments: ~~Sampled~~ @ 1440

* MS/MSD Here.

Appendix B Laboratory Report

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181652-1
Laboratory Sample Delivery Group: 480-181652-1
Client Project/Site: Ithaca NYSEG

For:
AECOM
125 Broad Street
16th Floor
New York, New York 10004

Attn: Ms. Melissa Saunders

Authorized for release by:
3/16/2021 10:33:16 AM

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-181652-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181652-1

Comments
No additional comments.

Receipt
The samples were received on 3/4/2021 10:00 AM and 3/5/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 2.3º C, 2.4º C, 2.4º C, 2.6º C, 2.6º C, 2.7º C, 2.8º C, 2.9º C, 3.0º C and 3.1º C.

GC/MS VOA
Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-23S 030421 (480-181708-7), MW-48S 030321 (480-181652-10), MW-48S 030321 (480-181652-10[MS]) and MW-48S 030321 (480-181652-10[MSD]). . Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: MW-46S 030421 (480-181708-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-C11 030321 (480-181652-2), DUP (480-181652-4) and MW-C16 030321 (480-181652-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D LL: The following samples required a dilution due to the nature of the sample matrix: MW-C11 030321 (480-181652-2), DUP (480-181652-4) and MW-C16 030321 (480-181652-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-C12 030321 (480-181652-1), MW-48S 030321 (480-181652-10), MW-48S 030321 (480-181652-10[MS]) and MW-48S 030321 (480-181652-10[MSD]). Elevated reporting limits (RLs) are provided.

Method 8270D LL: The following sample required a dilution due to the abundance of target analytes: MW-C12 030321 (480-181652-1) and MW-23S 030421 (480-181708-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-46S 030421 (480-181708-2) and MW-23S 030421 (480-181708-7). Elevated reporting limits (RLs) are provided.

Method 8270D LL: The following sample was diluted due to color, appearance, and viscosity: MW-47S 030421 (480-181708-6). Elevated reporting limits (RL) are provided.

Method 8270D LL: The following sample was diluted due to the abundance of target analytes: MW-46S 030421 (480-181708-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-25S 030421 (480-181708-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-C12

Job ID: 480-181652-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

030321 (480-181652-1), MW-C11 030321 (480-181652-2) and MW-C16 030321 (480-181652-7). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the abundance of non-target analytes: MW-45S 030321 (480-181652-3), MW-24S 030321 (480-181652-8), MW-28S 030321 (480-181652-9) and MW-48S 030321 (480-181652-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-C12 030321 (480-181652-1), MW-C11 030321 (480-181652-2), MW-28S 030321 (480-181652-9) and MW-48S 030321 (480-181652-10). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-28S 030321 (480-181652-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-C12 030321 (480-181652-1), MW-C11 030321 (480-181652-2), MW-45S 030321 (480-181652-3), MW-C16 030321 (480-181652-7), MW-24S 030321 (480-181652-8), MW-28S 030321 (480-181652-9), MW-48S 030321 (480-181652-10), MW-25S 030421 (480-181708-1), MW-46S 030421 (480-181708-2), MW-22S 030421 (480-181708-3), MW-40 030421 (480-181708-4), MW-31S 030421 (480-181708-5), MW-47S 030421 (480-181708-6), MW-23S 030421 (480-181708-7) and MW-33S 030421 (480-181708-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-C12 030321 — Lab Sample ID: 480-181652-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	31		1.0	0.74	ug/L	1		8260C	Total/NA
Xylenes, Total	1.9	J	2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	100	E	0.50	0.036	ug/L	1		8270D LL	Total/NA
Acenaphthylene	1.4		0.30	0.056	ug/L	1		8270D LL	Total/NA
Anthracene	0.23	J	0.50	0.034	ug/L	1		8270D LL	Total/NA
Fluorene	19	E	0.50	0.058	ug/L	1		8270D LL	Total/NA
Naphthalene	0.35	J	1.0	0.064	ug/L	1		8270D LL	Total/NA
Phenanthrene	2.3		0.20	0.062	ug/L	1		8270D LL	Total/NA
Acenaphthene - DL	140		10	0.72	ug/L	20		8270D LL	Total/NA
Acenaphthylene - DL	1.3	J	6.0	1.1	ug/L	20		8270D LL	Total/NA
Fluorene - DL	18		10	1.2	ug/L	20		8270D LL	Total/NA
Phenanthrene - DL	2.4	J	4.0	1.2	ug/L	20		8270D LL	Total/NA
Methane	820		44	11	ug/L	11		RSK-175	Total/NA
Iron	2.1		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	214		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	1.5		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.010		0.010	0.0050	mg/L	1		9012B	Total/NA
Alkalinity, Total	538		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-C11 030321 — Lab Sample ID: 480-181652-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1.3	J	10	0.72	ug/L	20		8270D LL	Total/NA
Benzo[b]fluoranthene	0.030	J	0.050	0.024	ug/L	1		8270E SIM	Total/NA
Methane	460		88	22	ug/L	22		RSK-175	Total/NA
Iron	13.6		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	1880		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	3.4		0.040	0.018	mg/L	2		350.1	Total/NA
Cyanide, Total	0.040		0.010	0.0050	mg/L	1		9012B	Total/NA
Alkalinity, Total	700		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Ferrous Iron	0.17	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-45S 030321 — Lab Sample ID: 480-181652-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	24		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	10.4		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	11.2		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.44		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.055		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	365		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DUP — Lab Sample ID: 480-181652-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1.4	J	10	0.72	ug/L	20		8270D LL	Total/NA
Benzo[a]anthracene	0.021	J	0.050	0.016	ug/L	1		8270E SIM	Total/NA
Benzo[a]pyrene	0.032	J	0.050	0.022	ug/L	1		8270E SIM	Total/NA
Benzo[b]fluoranthene	0.055		0.050	0.024	ug/L	1		8270E SIM	Total/NA
Benzo[g,h,i]perylene	0.044	J	0.050	0.035	ug/L	1		8270E SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.043	J	0.050	0.036	ug/L	1		8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: DUP (Continued) — Lab Sample ID: 480-181652-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.033		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: TRIP BLANK 030321 — Lab Sample ID: 480-181652-5

No Detections.

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 480-181652-6

No Detections.

Client Sample ID: MW-C16 030321 — Lab Sample ID: 480-181652-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	15		10	0.72	ug/L	20		8270D LL	Total/NA
Fluorene	2.7	J	10	1.2	ug/L	20		8270D LL	Total/NA
Benzo[a]anthracene	0.024	J	0.050	0.016	ug/L	1		8270E SIM	Total/NA
Benzo[a]pyrene	0.025	J	0.050	0.022	ug/L	1		8270E SIM	Total/NA
Benzo[b]fluoranthene	0.035	J	0.050	0.024	ug/L	1		8270E SIM	Total/NA
Methane	11		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	25.8		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	1470		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.58		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.010		0.010	0.0050	mg/L	1		9012B	Total/NA
Alkalinity, Total	615		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-24S 030321 — Lab Sample ID: 480-181652-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.024	J	0.050	0.022	ug/L	1		8270E SIM	Total/NA
Iron	1.8		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	39.6		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	1.8		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	317		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-28S 030321 — Lab Sample ID: 480-181652-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	3900		88	22	ug/L	22		RSK-175	Total/NA
Iron	1.5		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	14.4		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.88		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.13		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	260		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-48S 030321 — Lab Sample ID: 480-181652-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	35		2.0	0.82	ug/L	2		8260C	Total/NA
Ethylbenzene	39	F1	2.0	1.5	ug/L	2		8260C	Total/NA
Xylenes, Total	18		4.0	1.3	ug/L	2		8260C	Total/NA
Acenaphthene	36	E	0.50	0.036	ug/L	1		8270D LL	Total/NA
Acenaphthylene	1.4		0.30	0.056	ug/L	1		8270D LL	Total/NA
Anthracene	1.4		0.50	0.034	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.61		0.50	0.080	ug/L	1		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: MW-48S 030321 (Continued) — Lab Sample ID: 480-181652-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	4.0		0.50	0.058	ug/L	1		8270D LL	Total/NA
Naphthalene	41	E	1.0	0.064	ug/L	1		8270D LL	Total/NA
Phenanthrene	5.1		0.20	0.062	ug/L	1		8270D LL	Total/NA
Pyrene	0.76		0.50	0.076	ug/L	1		8270D LL	Total/NA
Acenaphthene - DL	33		5.0	0.36	ug/L	10		8270D LL	Total/NA
Acenaphthylene - DL	1.2	J	3.0	0.56	ug/L	10		8270D LL	Total/NA
Anthracene - DL	1.2	J	5.0	0.34	ug/L	10		8270D LL	Total/NA
Fluorene - DL	3.5	J	5.0	0.58	ug/L	10		8270D LL	Total/NA
Naphthalene - DL	44		10	0.64	ug/L	10		8270D LL	Total/NA
Phenanthrene - DL	4.5		2.0	0.62	ug/L	10		8270D LL	Total/NA
Benzo[a]anthracene	0.043	J	0.050	0.016	ug/L	1		8270E SIM	Total/NA
Methane	3100		44	11	ug/L	11		RSK-175	Total/NA
Iron	3.4		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	12.1	J	20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	1.4		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.036	J	0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	376		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-25S 030421 — Lab Sample ID: 480-181708-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.42	J B	1.0	0.064	ug/L	1		8270D LL	Total/NA
Iron	1.5		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	206		20.0	3.5	mg/L	10		300.0	Total/NA
Cyanide, Total	0.026		0.010	0.0050	mg/L	1		9012B	Total/NA
Nitrate as N	0.12		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	616		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-46S 030421 — Lab Sample ID: 480-181708-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1300	E	10	4.1	ug/L	10		8260C	Total/NA
Ethylbenzene	970		10	7.4	ug/L	10		8260C	Total/NA
Toluene	32		10	5.1	ug/L	10		8260C	Total/NA
Xylenes, Total	440		20	6.6	ug/L	10		8260C	Total/NA
Benzene - DL	1200		20	8.2	ug/L	20		8260C	Total/NA
Ethylbenzene - DL	1100		20	15	ug/L	20		8260C	Total/NA
Toluene - DL	35		20	10	ug/L	20		8260C	Total/NA
Xylenes, Total - DL	510		40	13	ug/L	20		8260C	Total/NA
Acenaphthene	89	J	100	7.2	ug/L	200		8270D LL	Total/NA
Acenaphthylene	12	J	60	11	ug/L	200		8270D LL	Total/NA
Anthracene	8.2	J	100	6.8	ug/L	200		8270D LL	Total/NA
Fluorene	20	J	100	12	ug/L	200		8270D LL	Total/NA
Naphthalene	2500	B	200	13	ug/L	200		8270D LL	Total/NA
Phenanthrene	14	J	40	12	ug/L	200		8270D LL	Total/NA
Pyrene	22	J	100	15	ug/L	200		8270D LL	Total/NA
Benzo[a]anthracene	5.4		0.25	0.078	ug/L	5		8270E SIM	Total/NA
Benzo[a]pyrene	6.1		0.25	0.11	ug/L	5		8270E SIM	Total/NA
Benzo[b]fluoranthene	3.4		0.25	0.12	ug/L	5		8270E SIM	Total/NA
Benzo[g,h,i]perylene	2.6		0.25	0.18	ug/L	5		8270E SIM	Total/NA
Benzo[k]fluoranthene	1.8		0.25	0.14	ug/L	5		8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.95		0.25	0.10	ug/L	5		8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-46S 030421 (Continued) — Lab Sample ID: 480-181708-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	2.7		0.25	0.18	ug/L	5		8270E SIM	Total/NA
Methane	13000		350	88	ug/L	88		RSK-175	Total/NA
Iron	10.7		0.050	0.019	mg/L	1		6010C	Total/NA
Ammonia	5.0		0.10	0.045	mg/L	5		350.1	Total/NA
Alkalinity, Total	356		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Ferrous Iron	0.20	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-22S 030421 — Lab Sample ID: 480-181708-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.13	J	0.30	0.056	ug/L	1		8270D LL	Total/NA
Anthracene	0.052	J	0.50	0.034	ug/L	1		8270D LL	Total/NA
Chrysene	0.16	J	0.50	0.074	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.19	J	0.50	0.080	ug/L	1		8270D LL	Total/NA
Naphthalene	0.32	J B	1.0	0.064	ug/L	1		8270D LL	Total/NA
Pyrene	0.29	J	0.50	0.076	ug/L	1		8270D LL	Total/NA
Benzo[a]anthracene	0.046	J	0.050	0.016	ug/L	1		8270E SIM	Total/NA
Benzo[a]pyrene	0.037	J	0.050	0.022	ug/L	1		8270E SIM	Total/NA
Iron	0.73		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	58.3		10.0	1.7	mg/L	5		300.0	Total/NA
Cyanide, Total	1.3		0.050	0.025	mg/L	5		9012B	Total/NA
Nitrate as N	18.8		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	190		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-40 030421 — Lab Sample ID: 480-181708-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	5.5		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	2.5		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	13.9		2.0	0.35	mg/L	1		300.0	Total/NA
Ammonia	0.11		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.52		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	147		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-31S 030421 — Lab Sample ID: 480-181708-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	36		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.39		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	16.3		4.0	0.70	mg/L	2		300.0	Total/NA
Ammonia	0.051		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.18		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	258		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-47S 030421 — Lab Sample ID: 480-181708-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.91	J	2.5	0.18	ug/L	5		8270D LL	Total/NA
Methane	12000		880	220	ug/L	220		RSK-175	Total/NA
Iron	14.8		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	7.5	J	10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	4.6		0.10	0.045	mg/L	5		350.1	Total/NA
Alkalinity, Total	292		5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-23S 030421 — Lab Sample ID: 480-181708-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	26		2.0	1.5	ug/L	2		8260C	Total/NA
Xylenes, Total	16		4.0	1.3	ug/L	2		8260C	Total/NA
Acenaphthene	82		25	1.8	ug/L	50		8270D LL	Total/NA
Anthracene	3.5	J	25	1.7	ug/L	50		8270D LL	Total/NA
Fluorene	17	J	25	2.9	ug/L	50		8270D LL	Total/NA
Naphthalene	230	B	50	3.2	ug/L	50		8270D LL	Total/NA
Phenanthrene	15		10	3.1	ug/L	50		8270D LL	Total/NA
Methane	2900		88	22	ug/L	22		RSK-175	Total/NA
Iron	1.9		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	5.8	J	10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	1.1		0.020	0.0090	mg/L	1		350.1	Total/NA
Cyanide, Total	0.0053	J	0.010	0.0050	mg/L	1		9012B	Total/NA
Nitrate as N	0.33		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	234		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-33S 030421 — Lab Sample ID: 480-181708-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	1.7	J	4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.97		0.050	0.019	mg/L	1		6010C	Total/NA
Sulfate	44.9		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.090		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.22		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	364		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK 030421 — Lab Sample ID: 480-181708-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-C12 030321

Date Collected: 03/03/21 09:10
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**16**		1.0	0.41	ug/L			03/05/21 12:03	1
Ethylbenzene	**31**		1.0	0.74	ug/L			03/05/21 12:03	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 12:03	1
Xylenes, Total	**1.9**	**J**	2.0	0.66	ug/L			03/05/21 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/05/21 12:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*03/05/21 12:03*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/05/21 12:03*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/05/21 12:03*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**100**	**E**	0.50	0.036	ug/L		03/04/21 14:56	03/05/21 18:22	1
Acenaphthylene	**1.4**		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 18:22	1
Anthracene	**0.23**	**J**	0.50	0.034	ug/L		03/04/21 14:56	03/05/21 18:22	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 18:22	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 18:22	1
Fluorene	**19**	**E**	0.50	0.058	ug/L		03/04/21 14:56	03/05/21 18:22	1
Naphthalene	**0.35**	**J**	1.0	0.064	ug/L		03/04/21 14:56	03/05/21 18:22	1
Phenanthrene	**2.3**		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 18:22	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*24 - 146*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
2-Fluorobiphenyl	*90*		*37 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
Nitrobenzene-d5 (Surr)	*87*		*26 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
Phenol-d5 (Surr)	*30*		*11 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
p-Terphenyl-d14	*90*		*64 - 127*	*03/04/21 14:56*	*03/05/21 18:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**140**		10	0.72	ug/L		03/04/21 14:56	03/08/21 17:04	20
Acenaphthylene	**1.3**	**J**	6.0	1.1	ug/L		03/04/21 14:56	03/08/21 17:04	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/08/21 17:04	20
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/08/21 17:04	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/08/21 17:04	20
Fluorene	**18**		10	1.2	ug/L		03/04/21 14:56	03/08/21 17:04	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/08/21 17:04	20
Phenanthrene	**2.4**	**J**	4.0	1.2	ug/L		03/04/21 14:56	03/08/21 17:04	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/08/21 17:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*24 - 146*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
2-Fluorobiphenyl	*82*		*37 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
2-Fluorophenol (Surr)	*36*		*10 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
Nitrobenzene-d5 (Surr)	*105*		*26 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
Phenol-d5 (Surr)	*26*		*11 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
p-Terphenyl-d14	*77*		*64 - 127*	*03/04/21 14:56*	*03/08/21 17:04*	*20*

Client Sample ID: MW-C12 030321

Lab Sample ID: 480-181652-1
Date Collected: 03/03/21 09:10
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 10:08	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 10:08	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77*		*54 - 134*	*03/08/21 16:57*	*03/09/21 10:08*	*1*
2-Fluorobiphenyl	*91*		*25 - 131*	*03/08/21 16:57*	*03/09/21 10:08*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**820**		44	11	ug/L			03/04/21 18:42	11

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.1**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**214**		10.0	1.7	mg/L			03/05/21 12:18	5
Ammonia	**1.5**		0.020	0.0090	mg/L			03/05/21 06:31	1
Cyanide, Total	**0.010**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:09	1
Nitrate as N	ND		0.050	0.020	mg/L			03/04/21 18:41	1
Alkalinity, Total	**538**		5.0	0.79	mg/L			03/08/21 16:27	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-C11 030321

Lab Sample ID: 480-181652-2
Date Collected: 03/03/21 10:25
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			03/05/21 12:27	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/05/21 12:27	4
Toluene	ND		4.0	2.0	ug/L			03/05/21 12:27	4
Xylenes, Total	ND		8.0	2.6	ug/L			03/05/21 12:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/05/21 12:27*	*4*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*03/05/21 12:27*	*4*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/05/21 12:27*	*4*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/05/21 12:27*	*4*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.3**	**J**	10	0.72	ug/L		03/04/21 14:56	03/05/21 18:51	20
Acenaphthylene	ND		6.0	1.1	ug/L		03/04/21 14:56	03/05/21 18:51	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/05/21 18:51	20

Client Sample ID: MW-C11 030321

Date Collected: 03/03/21 10:25
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 18:51	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/05/21 18:51	20
Fluorene	ND		10	1.2	ug/L		03/04/21 14:56	03/05/21 18:51	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/05/21 18:51	20
Phenanthrene	ND		4.0	1.2	ug/L		03/04/21 14:56	03/05/21 18:51	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 18:51	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*24 - 146*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
2-Fluorobiphenyl	*91*		*37 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
2-Fluorophenol (Surr)	*42*		*10 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
Nitrobenzene-d5 (Surr)	*114*		*26 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
Phenol-d5 (Surr)	*29*		*11 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
p-Terphenyl-d14	*91*		*64 - 127*	*03/04/21 14:56*	*03/05/21 18:51*	*20*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[b]fluoranthene	**0.030**	**J**	0.050	0.024	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 20:59	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 20:59	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*54 - 134*	*03/08/21 16:57*	*03/09/21 20:59*	*1*
2-Fluorobiphenyl	*64*		*25 - 131*	*03/08/21 16:57*	*03/09/21 20:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**460**		88	22	ug/L			03/04/21 16:49	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**13.6**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1880**		100	17.5	mg/L			03/05/21 12:33	50
Ammonia	**3.4**		0.040	0.018	mg/L			03/05/21 07:25	2
Cyanide, Total	**0.040**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:11	1
Nitrate as N	ND		0.050	0.020	mg/L			03/04/21 18:43	1
Alkalinity, Total	**700**		5.0	0.79	mg/L			03/08/21 16:36	1
Ferrous Iron	**0.17**	**HF**	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-45S 030321

Date Collected: 03/03/21 13:40
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 12:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 12:52	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 12:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/05/21 12:52*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 12:52*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/05/21 12:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/05/21 12:52*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 19:19	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 19:19	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 19:19	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 19:19	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 19:19	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 19:19	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 19:19	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 19:19	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 146*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
2-Fluorobiphenyl	*97*		*37 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
Nitrobenzene-d5 (Surr)	*92*		*26 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
p-Terphenyl-d14	*95*		*64 - 127*	*03/04/21 14:56*	*03/05/21 19:19*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 10:29	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 10:29	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*54 - 134*	*03/08/21 16:57*	*03/09/21 10:29*	*1*
2-Fluorobiphenyl	*93*		*25 - 131*	*03/08/21 16:57*	*03/09/21 10:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**24**		4.0	1.0	ug/L			03/04/21 17:08	1

Client Sample ID: MW-45S 030321

Lab Sample ID: 480-181652-3
Date Collected: 03/03/21 13:40
Matrix: Water
Date Received: 03/04/21 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.4**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**11.2**		10.0	1.7	mg/L			03/05/21 12:48	5
Ammonia	**0.44**		0.020	0.0090	mg/L			03/05/21 06:32	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:12	1
Nitrate as N	**0.055**		0.050	0.020	mg/L			03/04/21 20:02	1
Alkalinity, Total	**365**		5.0	0.79	mg/L			03/08/21 17:05	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: DUP

Lab Sample ID: 480-181652-4
Date Collected: 03/03/21 00:00
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			03/05/21 13:17	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/05/21 13:17	4
Toluene	ND		4.0	2.0	ug/L			03/05/21 13:17	4
Xylenes, Total	ND		8.0	2.6	ug/L			03/05/21 13:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/05/21 13:17*	*4*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*03/05/21 13:17*	*4*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/05/21 13:17*	*4*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/05/21 13:17*	*4*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.4**	**J**	10	0.72	ug/L		03/04/21 14:56	03/05/21 19:47	20
Acenaphthylene	ND		6.0	1.1	ug/L		03/04/21 14:56	03/05/21 19:47	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/05/21 19:47	20
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 19:47	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/05/21 19:47	20
Fluorene	ND		10	1.2	ug/L		03/04/21 14:56	03/05/21 19:47	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/05/21 19:47	20
Phenanthrene	ND		4.0	1.2	ug/L		03/04/21 14:56	03/05/21 19:47	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 19:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
2-Fluorobiphenyl	*87*		*37 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
Nitrobenzene-d5 (Surr)	*111*		*26 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
Phenol-d5 (Surr)	*29*		*11 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
p-Terphenyl-d14	*84*		*64 - 127*	*03/04/21 14:56*	*03/05/21 19:47*	*20*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.021**	**J**	0.050	0.016	ug/L		03/08/21 16:57	03/09/21 14:17	1

Client Sample ID: DUP

Lab Sample ID: 480-181652-4
Date Collected: 03/03/21 00:00
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.032**	**J**	0.050	0.022	ug/L		03/08/21 16:57	03/09/21 14:17	1
Benzo[b]fluoranthene	**0.055**		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 14:17	1
Benzo[g,h,i]perylene	**0.044**	**J**	0.050	0.035	ug/L		03/08/21 16:57	03/09/21 14:17	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 14:17	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 14:17	1
Indeno[1,2,3-cd]pyrene	**0.043**	**J**	0.050	0.036	ug/L		03/08/21 16:57	03/09/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*76*		*54 - 134*	*03/08/21 16:57*	*03/09/21 14:17*	*1*
2-Fluorobiphenyl	*62*		*25 - 131*	*03/08/21 16:57*	*03/09/21 14:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.033**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:16	1

Client Sample ID: TRIP BLANK 030321

Lab Sample ID: 480-181652-5
Date Collected: 03/03/21 00:00
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 13:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 13:42	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 13:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*03/05/21 13:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 13:42*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*03/05/21 13:42*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/05/21 13:42*	*1*

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-181652-6
Date Collected: 03/03/21 14:30
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 14:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 14:07	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 14:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/05/21 14:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 14:07*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/05/21 14:07*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/05/21 14:07*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 20:15	1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-181652-6
Matrix: Water
Date Collected: 03/03/21 14:30
Date Received: 03/04/21 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 20:15	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 20:15	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 20:15	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 20:15	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 20:15	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 20:15	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 20:15	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
2-Fluorobiphenyl	*100*		*37 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
Nitrobenzene-d5 (Surr)	*95*		*26 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
p-Terphenyl-d14	*117*		*64 - 127*	*03/04/21 14:56*	*03/05/21 20:15*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 10:50	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 10:50	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*54 - 134*	*03/08/21 16:57*	*03/09/21 10:50*	*1*
2-Fluorobiphenyl	*94*		*25 - 131*	*03/08/21 16:57*	*03/09/21 10:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:18	1

Client Sample ID: MW-C16 030321

Lab Sample ID: 480-181652-7
Matrix: Water
Date Collected: 03/03/21 10:05
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			03/05/21 14:31	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/05/21 14:31	4
Toluene	ND		4.0	2.0	ug/L			03/05/21 14:31	4
Xylenes, Total	ND		8.0	2.6	ug/L			03/05/21 14:31	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/05/21 14:31*	*4*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*03/05/21 14:31*	*4*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/05/21 14:31*	*4*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/05/21 14:31*	*4*

Client Sample ID: MW-C16 030321

Date Collected: 03/03/21 10:05
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-7

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**15**		10	0.72	ug/L		03/04/21 14:56	03/05/21 20:44	20
Acenaphthylene	ND		6.0	1.1	ug/L		03/04/21 14:56	03/05/21 20:44	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/05/21 20:44	20
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 20:44	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/05/21 20:44	20
Fluorene	**2.7**	**J**	10	1.2	ug/L		03/04/21 14:56	03/05/21 20:44	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/05/21 20:44	20
Phenanthrene	ND		4.0	1.2	ug/L		03/04/21 14:56	03/05/21 20:44	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 20:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*24 - 146*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
2-Fluorobiphenyl	*94*		*37 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
2-Fluorophenol (Surr)	*42*		*10 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
Nitrobenzene-d5 (Surr)	*117*		*26 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
Phenol-d5 (Surr)	*29*		*11 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
p-Terphenyl-d14	*97*		*64 - 127*	*03/04/21 14:56*	*03/05/21 20:44*	*20*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.024**	**J**	0.050	0.016	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[a]pyrene	**0.025**	**J**	0.050	0.022	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[b]fluoranthene	**0.035**	**J**	0.050	0.024	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 14:38	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 14:38	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*54 - 134*	*03/08/21 16:57*	*03/09/21 14:38*	*1*
2-Fluorobiphenyl	*65*		*25 - 131*	*03/08/21 16:57*	*03/09/21 14:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**11**		4.0	1.0	ug/L			03/04/21 19:01	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**25.8**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1470**		40.0	7.0	mg/L			03/05/21 13:02	20
Ammonia	**0.58**		0.020	0.0090	mg/L			03/05/21 06:33	1
Cyanide, Total	**0.010**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:19	1
Nitrate as N	ND		0.050	0.020	mg/L			03/04/21 18:46	1
Alkalinity, Total	**615**		5.0	0.79	mg/L			03/08/21 17:22	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-24S 030321

Date Collected: 03/03/21 11:20
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 14:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 14:56	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 14:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*03/05/21 14:56*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*03/05/21 14:56*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/05/21 14:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/05/21 14:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 21:13	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 21:13	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 21:13	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 21:13	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 21:13	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 21:13	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 21:13	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 21:13	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
2-Fluorobiphenyl	*88*		*37 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
Phenol-d5 (Surr)	*30*		*11 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
p-Terphenyl-d14	*105*		*64 - 127*	*03/04/21 14:56*	*03/05/21 21:13*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[a]pyrene	**0.024**	**J**	0.050	0.022	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 14:59	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 14:59	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85*		*54 - 134*	*03/08/21 16:57*	*03/09/21 14:59*	*1*
2-Fluorobiphenyl	*68*		*25 - 131*	*03/08/21 16:57*	*03/09/21 14:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/04/21 17:45	1

Client Sample ID: MW-24S 030321

Lab Sample ID: 480-181652-8

Date Collected: 03/03/21 11:20
Matrix: Water
Date Received: 03/04/21 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.8**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**39.6**		10.0	1.7	mg/L			03/05/21 13:17	5
Ammonia	ND		0.020	0.0090	mg/L			03/05/21 06:34	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:21	1
Nitrate as N	**1.8**		0.050	0.020	mg/L			03/04/21 20:05	1
Alkalinity, Total	**317**		5.0	0.79	mg/L			03/08/21 17:38	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-28S 030321

Lab Sample ID: 480-181652-9

Date Collected: 03/03/21 12:45
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 15:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 15:21	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 15:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*03/05/21 15:21*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 15:21*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*03/05/21 15:21*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/05/21 15:21*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 21:42	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 21:42	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 21:42	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 21:42	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 21:42	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 21:42	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 21:42	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 21:42	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 146*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
2-Fluorobiphenyl	*82*		*37 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
Phenol-d5 (Surr)	*27*		*11 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
p-Terphenyl-d14	*102*		*64 - 127*	*03/04/21 14:56*	*03/05/21 21:42*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 20:38	1

Client Sample ID: MW-28S 030321

Lab Sample ID: 480-181652-9
Date Collected: 03/03/21 12:45
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 20:38	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 20:38	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 20:38	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 20:38	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 20:38	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*75*		*54 - 134*	*03/08/21 16:57*	*03/09/21 20:38*	*1*
2-Fluorobiphenyl	*60*		*25 - 131*	*03/08/21 16:57*	*03/09/21 20:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3900**		88	22	ug/L			03/04/21 19:20	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.5**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**14.4**		10.0	1.7	mg/L			03/05/21 13:31	5
Ammonia	**0.88**		0.020	0.0090	mg/L			03/05/21 06:37	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:22	1
Nitrate as N	**0.13**		0.050	0.020	mg/L			03/04/21 20:06	1
Alkalinity, Total	**260**		5.0	0.79	mg/L			03/08/21 17:45	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-48S 030321

Lab Sample ID: 480-181652-10
Date Collected: 03/03/21 14:40
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**35**		2.0	0.82	ug/L			03/05/21 15:45	2
Ethylbenzene	**39**	**F1**	2.0	1.5	ug/L			03/05/21 15:45	2
Toluene	ND		2.0	1.0	ug/L			03/05/21 15:45	2
Xylenes, Total	**18**		4.0	1.3	ug/L			03/05/21 15:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/05/21 15:45*	*2*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/05/21 15:45*	*2*
Dibromofluoromethane (Surr)	*117*		*75 - 123*		*03/05/21 15:45*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/05/21 15:45*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**36**	**E**	0.50	0.036	ug/L		03/04/21 14:56	03/05/21 17:54	1
Acenaphthylene	**1.4**		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 17:54	1
Anthracene	**1.4**		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 17:54	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 17:54	1

Client Sample ID: MW-48S 030321

Date Collected: 03/03/21 14:40
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-10

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**0.61**		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 17:54	1
Fluorene	**4.0**		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 17:54	1
Naphthalene	**41**	**E**	1.0	0.064	ug/L		03/04/21 14:56	03/05/21 17:54	1
Phenanthrene	**5.1**		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 17:54	1
Pyrene	**0.76**		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*24 - 146*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
2-Fluorobiphenyl	*98*		*37 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
Nitrobenzene-d5 (Surr)	*91*		*26 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
Phenol-d5 (Surr)	*34*		*11 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*03/04/21 14:56*	*03/05/21 17:54*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**33**		5.0	0.36	ug/L		03/04/21 14:56	03/08/21 16:36	10
Acenaphthylene	**1.2**	**J**	3.0	0.56	ug/L		03/04/21 14:56	03/08/21 16:36	10
Anthracene	**1.2**	**J**	5.0	0.34	ug/L		03/04/21 14:56	03/08/21 16:36	10
Chrysene	ND		5.0	0.74	ug/L		03/04/21 14:56	03/08/21 16:36	10
Fluoranthene	ND		5.0	0.80	ug/L		03/04/21 14:56	03/08/21 16:36	10
Fluorene	**3.5**	**J**	5.0	0.58	ug/L		03/04/21 14:56	03/08/21 16:36	10
Naphthalene	**44**		10	0.64	ug/L		03/04/21 14:56	03/08/21 16:36	10
Phenanthrene	**4.5**		2.0	0.62	ug/L		03/04/21 14:56	03/08/21 16:36	10
Pyrene	ND		5.0	0.76	ug/L		03/04/21 14:56	03/08/21 16:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*24 - 146*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
2-Fluorobiphenyl	*90*		*37 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
Phenol-d5 (Surr)	*27*		*11 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
p-Terphenyl-d14	*84*		*64 - 127*	*03/04/21 14:56*	*03/08/21 16:36*	*10*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.043**	**J**	0.050	0.016	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 05:34	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 05:34	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*54 - 134*	*03/08/21 16:57*	*03/09/21 05:34*	*1*
2-Fluorobiphenyl	*82*		*25 - 131*	*03/08/21 16:57*	*03/09/21 05:34*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3100**		44	11	ug/L			03/04/21 18:23	11

Client Sample ID: MW-48S 030321

Lab Sample ID: 480-181652-10
Date Collected: 03/03/21 14:40
Matrix: Water
Date Received: 03/04/21 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.4		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	12.1	J	20.0	3.5	mg/L			03/05/21 14:44	10
Ammonia	1.4		0.020	0.0090	mg/L			03/05/21 06:39	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:03	1
Nitrate as N	0.036	J	0.050	0.020	mg/L			03/04/21 18:49	1
Alkalinity, Total	376		5.0	0.79	mg/L			03/08/21 17:52	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-25S 030421

Lab Sample ID: 480-181708-1
Date Collected: 03/04/21 08:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 02:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 02:22	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 02:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/06/21 02:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/06/21 02:22*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/06/21 02:22*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/06/21 02:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 13:21	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 13:21	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 13:21	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 13:21	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 13:21	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 13:21	1
Naphthalene	0.42	J B	1.0	0.064	ug/L		03/05/21 15:01	03/08/21 13:21	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 13:21	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*24 - 146*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
2-Fluorobiphenyl	*90*		*37 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
Nitrobenzene-d5 (Surr)	*94*		*26 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
Phenol-d5 (Surr)	*35*		*11 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
p-Terphenyl-d14	*54*	*S1-*	*64 - 127*	*03/05/21 15:01*	*03/08/21 13:21*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 05:18	1

Client Sample ID: MW-25S 030421

Lab Sample ID: 480-181708-1

Date Collected: 03/04/21 08:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 05:18	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 05:18	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 05:18	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 05:18	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 05:18	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*25 - 131*	*03/10/21 14:25*	*03/11/21 05:18*	*1*
Nitrobenzene-d5	*77*		*54 - 134*	*03/10/21 14:25*	*03/11/21 05:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 22:32	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.5**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 21:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**206**		20.0	3.5	mg/L			03/08/21 16:07	10
Ammonia	ND	F1	0.020	0.0090	mg/L			03/08/21 09:47	1
Cyanide, Total	**0.026**		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 19:55	1
Nitrate as N	**0.12**		0.050	0.020	mg/L			03/05/21 13:41	1
Alkalinity, Total	**616**		5.0	0.79	mg/L			03/09/21 00:06	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-46S 030421

Lab Sample ID: 480-181708-2

Date Collected: 03/04/21 09:35
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1300**	**E**	10	4.1	ug/L			03/06/21 02:46	10
Ethylbenzene	**970**		10	7.4	ug/L			03/06/21 02:46	10
Toluene	**32**		10	5.1	ug/L			03/06/21 02:46	10
Xylenes, Total	**440**		20	6.6	ug/L			03/06/21 02:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*		*03/06/21 02:46*	*10*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/06/21 02:46*	*10*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*03/06/21 02:46*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/06/21 02:46*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1200**		20	8.2	ug/L			03/06/21 15:32	20
Ethylbenzene	**1100**		20	15	ug/L			03/06/21 15:32	20
Toluene	**35**		20	10	ug/L			03/06/21 15:32	20
Xylenes, Total	**510**		40	13	ug/L			03/06/21 15:32	20

Client Sample ID: MW-46S 030421

Date Collected: 03/04/21 09:35
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*03/06/21 15:32*	*20*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/06/21 15:32*	*20*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*03/06/21 15:32*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/06/21 15:32*	*20*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**89**	**J**	100	7.2	ug/L		03/05/21 15:01	03/08/21 17:13	200
Acenaphthylene	**12**	**J**	60	11	ug/L		03/05/21 15:01	03/08/21 17:13	200
Anthracene	**8.2**	**J**	100	6.8	ug/L		03/05/21 15:01	03/08/21 17:13	200
Chrysene	ND		100	15	ug/L		03/05/21 15:01	03/08/21 17:13	200
Fluoranthene	ND		100	16	ug/L		03/05/21 15:01	03/08/21 17:13	200
Fluorene	**20**	**J**	100	12	ug/L		03/05/21 15:01	03/08/21 17:13	200
Naphthalene	**2500**	**B**	200	13	ug/L		03/05/21 15:01	03/08/21 17:13	200
Phenanthrene	**14**	**J**	40	12	ug/L		03/05/21 15:01	03/08/21 17:13	200
Pyrene	**22**	**J**	100	15	ug/L		03/05/21 15:01	03/08/21 17:13	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*24 - 146*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
2-Fluorobiphenyl	*100*		*37 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
2-Fluorophenol (Surr)	*328*	*S1+*	*10 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
Nitrobenzene-d5 (Surr)	*84*		*26 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
Phenol-d5 (Surr)	*121*	*S1+*	*11 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
p-Terphenyl-d14	*90*		*64 - 127*	*03/05/21 15:01*	*03/08/21 17:13*	*200*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**5.4**		0.25	0.078	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[a]pyrene	**6.1**		0.25	0.11	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[b]fluoranthene	**3.4**		0.25	0.12	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[g,h,i]perylene	**2.6**		0.25	0.18	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[k]fluoranthene	**1.8**		0.25	0.14	ug/L		03/10/21 14:25	03/11/21 11:25	5
Dibenz(a,h)anthracene	**0.95**		0.25	0.10	ug/L		03/10/21 14:25	03/11/21 11:25	5
Indeno[1,2,3-cd]pyrene	**2.7**		0.25	0.18	ug/L		03/10/21 14:25	03/11/21 11:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*25 - 131*	*03/10/21 14:25*	*03/11/21 11:25*	*5*
Nitrobenzene-d5	*69*		*54 - 134*	*03/10/21 14:25*	*03/11/21 11:25*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13000**		350	88	ug/L			03/11/21 00:07	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.7**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 21:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		10.0	1.7	mg/L			03/08/21 16:21	5
Ammonia	**5.0**		0.10	0.045	mg/L			03/08/21 10:10	5
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 19:56	1

Client Sample ID: MW-46S 030421

Lab Sample ID: 480-181708-2
Date Collected: 03/04/21 09:35
Matrix: Water
Date Received: 03/05/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	0.020	mg/L			03/05/21 13:42	1
Alkalinity, Total	**356**		5.0	0.79	mg/L			03/09/21 00:13	1
Ferrous Iron	**0.20**	**HF**	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-22S 030421

Lab Sample ID: 480-181708-3
Date Collected: 03/04/21 10:50
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 15:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 15:57	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 15:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*03/06/21 15:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/06/21 15:57*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*03/06/21 15:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 15:57*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 14:18	1
Acenaphthylene	**0.13**	**J**	0.30	0.056	ug/L		03/05/21 15:01	03/08/21 14:18	1
Anthracene	**0.052**	**J**	0.50	0.034	ug/L		03/05/21 15:01	03/08/21 14:18	1
Chrysene	**0.16**	**J**	0.50	0.074	ug/L		03/05/21 15:01	03/08/21 14:18	1
Fluoranthene	**0.19**	**J**	0.50	0.080	ug/L		03/05/21 15:01	03/08/21 14:18	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 14:18	1
Naphthalene	**0.32**	**J B**	1.0	0.064	ug/L		03/05/21 15:01	03/08/21 14:18	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 14:18	1
Pyrene	**0.29**	**J**	0.50	0.076	ug/L		03/05/21 15:01	03/08/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 146*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
2-Fluorobiphenyl	*93*		*37 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
Nitrobenzene-d5 (Surr)	*91*		*26 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
Phenol-d5 (Surr)	*30*		*11 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*03/05/21 15:01*	*03/08/21 14:18*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.046**	**J**	0.050	0.016	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[a]pyrene	**0.037**	**J**	0.050	0.022	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 05:39	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 05:39	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 05:39	1

Client Sample ID: MW-22S 030421

Lab Sample ID: 480-181708-3

Date Collected: 03/04/21 10:50
Matrix: Water
Date Received: 03/05/21 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		25 - 131	03/10/21 14:25	03/11/21 05:39	1
Nitrobenzene-d5	85		54 - 134	03/10/21 14:25	03/11/21 05:39	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 16:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.73**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**58.3**		10.0	1.7	mg/L			03/08/21 16:36	5
Ammonia	ND		0.020	0.0090	mg/L			03/08/21 09:49	1
Cyanide, Total	**1.3**		0.050	0.025	mg/L		03/10/21 21:43	03/11/21 18:39	5
Nitrate as N	**18.8**		0.050	0.020	mg/L			03/05/21 13:43	1
Alkalinity, Total	**190**		5.0	0.79	mg/L			03/09/21 16:17	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-40 030421

Lab Sample ID: 480-181708-4

Date Collected: 03/04/21 12:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 03:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 03:34	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 03:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		03/06/21 03:34	1
4-Bromofluorobenzene (Surr)	103		73 - 120		03/06/21 03:34	1
Dibromofluoromethane (Surr)	112		75 - 123		03/06/21 03:34	1
Toluene-d8 (Surr)	92		80 - 120		03/06/21 03:34	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 14:47	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 14:47	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 14:47	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 14:47	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 14:47	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 14:47	1
Naphthalene	ND		1.0	0.064	ug/L		03/05/21 15:01	03/08/21 14:47	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 14:47	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		24 - 146	03/05/21 15:01	03/08/21 14:47	1
2-Fluorobiphenyl	98		37 - 120	03/05/21 15:01	03/08/21 14:47	1

Client Sample ID: MW-40 030421

Date Collected: 03/04/21 12:00
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/05/21 15:01*	*03/08/21 14:47*	*1*
Nitrobenzene-d5 (Surr)	*99*		*26 - 120*	*03/05/21 15:01*	*03/08/21 14:47*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*03/05/21 15:01*	*03/08/21 14:47*	*1*
p-Terphenyl-d14	*105*		*64 - 127*	*03/05/21 15:01*	*03/08/21 14:47*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 06:01	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 06:01	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*25 - 131*	*03/10/21 14:25*	*03/11/21 06:01*	*1*
Nitrobenzene-d5	*83*		*54 - 134*	*03/10/21 14:25*	*03/11/21 06:01*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5.5**		4.0	1.0	ug/L			03/10/21 17:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.5**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**13.9**		2.0	0.35	mg/L			03/08/21 16:50	1
Ammonia	**0.11**		0.020	0.0090	mg/L			03/08/21 09:50	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 19:59	1
Nitrate as N	**0.52**		0.050	0.020	mg/L			03/05/21 13:44	1
Alkalinity, Total	**147**		5.0	0.79	mg/L			03/09/21 16:23	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-31S 030421

Date Collected: 03/04/21 08:40
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 03:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 03:58	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 03:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*03/06/21 03:58*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/06/21 03:58*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*03/06/21 03:58*	*1*

Client Sample ID: MW-31S 030421

Date Collected: 03/04/21 08:40
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/06/21 03:58*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 15:16	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 15:16	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 15:16	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 15:16	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 15:16	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 15:16	1
Naphthalene	ND		1.0	0.064	ug/L		03/05/21 15:01	03/08/21 15:16	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 15:16	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*24 - 146*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
2-Fluorobiphenyl	*99*		*37 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
Nitrobenzene-d5 (Surr)	*102*		*26 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
Phenol-d5 (Surr)	*34*		*11 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
p-Terphenyl-d14	*109*		*64 - 127*	*03/05/21 15:01*	*03/08/21 15:16*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 06:22	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 06:22	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*25 - 131*	*03/10/21 14:25*	*03/11/21 06:22*	*1*
Nitrobenzene-d5	*83*		*54 - 134*	*03/10/21 14:25*	*03/11/21 06:22*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**36**		4.0	1.0	ug/L			03/10/21 17:31	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.39**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**16.3**		4.0	0.70	mg/L			03/08/21 17:05	2
Ammonia	**0.051**		0.020	0.0090	mg/L			03/08/21 09:51	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:01	1
Nitrate as N	**0.18**		0.050	0.020	mg/L			03/05/21 13:47	1
Alkalinity, Total	**258**		5.0	0.79	mg/L			03/09/21 16:32	1

Client Sample ID: MW-31S 030421

Lab Sample ID: 480-181708-5
Date Collected: 03/04/21 08:40
Matrix: Water
Date Received: 03/05/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-47S 030421

Lab Sample ID: 480-181708-6
Date Collected: 03/04/21 10:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 04:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 04:22	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 04:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/06/21 04:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/06/21 04:22*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/06/21 04:22*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/06/21 04:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.91**	**J**	2.5	0.18	ug/L		03/05/21 15:01	03/08/21 15:45	5
Acenaphthylene	ND		1.5	0.28	ug/L		03/05/21 15:01	03/08/21 15:45	5
Anthracene	ND		2.5	0.17	ug/L		03/05/21 15:01	03/08/21 15:45	5
Chrysene	ND		2.5	0.37	ug/L		03/05/21 15:01	03/08/21 15:45	5
Fluoranthene	ND		2.5	0.40	ug/L		03/05/21 15:01	03/08/21 15:45	5
Fluorene	ND		2.5	0.29	ug/L		03/05/21 15:01	03/08/21 15:45	5
Naphthalene	ND		5.0	0.32	ug/L		03/05/21 15:01	03/08/21 15:45	5
Phenanthrene	ND		1.0	0.31	ug/L		03/05/21 15:01	03/08/21 15:45	5
Pyrene	ND		2.5	0.38	ug/L		03/05/21 15:01	03/08/21 15:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
2-Fluorobiphenyl	*88*		*37 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
Phenol-d5 (Surr)	*27*		*11 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
p-Terphenyl-d14	*83*		*64 - 127*	*03/05/21 15:01*	*03/08/21 15:45*	*5*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 06:43	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 06:43	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*25 - 131*	*03/10/21 14:25*	*03/11/21 06:43*	*1*

Client Sample ID: MW-47S 030421

Lab Sample ID: 480-181708-6
Date Collected: 03/04/21 10:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*81*		*54 - 134*	*03/10/21 14:25*	*03/11/21 06:43*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**12000**		880	220	ug/L			03/11/21 13:39	220

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**14.8**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**7.5**	**J**	10.0	1.7	mg/L			03/08/21 17:20	5
Ammonia	**4.6**		0.10	0.045	mg/L			03/08/21 10:11	5
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:02	1
Nitrate as N	ND		0.050	0.020	mg/L			03/05/21 13:50	1
Alkalinity, Total	**292**		5.0	0.79	mg/L			03/09/21 16:39	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-23S 030421

Lab Sample ID: 480-181708-7
Date Collected: 03/04/21 11:25
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.82	ug/L			03/06/21 04:47	2
Ethylbenzene	**26**		2.0	1.5	ug/L			03/06/21 04:47	2
Toluene	ND		2.0	1.0	ug/L			03/06/21 04:47	2
Xylenes, Total	**16**		4.0	1.3	ug/L			03/06/21 04:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*03/06/21 04:47*	*2*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/06/21 04:47*	*2*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/06/21 04:47*	*2*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/06/21 04:47*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**82**		25	1.8	ug/L		03/05/21 15:01	03/08/21 16:15	50
Acenaphthylene	ND		15	2.8	ug/L		03/05/21 15:01	03/08/21 16:15	50
Anthracene	**3.5**	**J**	25	1.7	ug/L		03/05/21 15:01	03/08/21 16:15	50
Chrysene	ND		25	3.7	ug/L		03/05/21 15:01	03/08/21 16:15	50
Fluoranthene	ND		25	4.0	ug/L		03/05/21 15:01	03/08/21 16:15	50
Fluorene	**17**	**J**	25	2.9	ug/L		03/05/21 15:01	03/08/21 16:15	50
Naphthalene	**230**	**B**	50	3.2	ug/L		03/05/21 15:01	03/08/21 16:15	50
Phenanthrene	**15**		10	3.1	ug/L		03/05/21 15:01	03/08/21 16:15	50
Pyrene	ND		25	3.8	ug/L		03/05/21 15:01	03/08/21 16:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*151*	*S1+*	*24 - 146*	*03/05/21 15:01*	*03/08/21 16:15*	*50*
2-Fluorobiphenyl	*97*		*37 - 120*	*03/05/21 15:01*	*03/08/21 16:15*	*50*

Client Sample ID: MW-23S 030421

Lab Sample ID: 480-181708-7

Date Collected: 03/04/21 11:25
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*94*		*10 - 120*	*03/05/21 15:01*	*03/08/21 16:15*	*50*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*03/05/21 15:01*	*03/08/21 16:15*	*50*
Phenol-d5 (Surr)	*49*		*11 - 120*	*03/05/21 15:01*	*03/08/21 16:15*	*50*
p-Terphenyl-d14	*88*		*64 - 127*	*03/05/21 15:01*	*03/08/21 16:15*	*50*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 07:04	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 07:04	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*25 - 131*	*03/10/21 14:25*	*03/11/21 07:04*	*1*
Nitrobenzene-d5	*84*		*54 - 134*	*03/10/21 14:25*	*03/11/21 07:04*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2900**		88	22	ug/L			03/11/21 13:58	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.9**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5.8**	**J**	10.0	1.7	mg/L			03/08/21 17:34	5
Ammonia	**1.1**		0.020	0.0090	mg/L			03/08/21 09:53	1
Cyanide, Total	**0.0053**	**J**	0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:04	1
Nitrate as N	**0.33**		0.050	0.020	mg/L			03/05/21 13:51	1
Alkalinity, Total	**234**		5.0	0.79	mg/L			03/09/21 16:45	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-33S 030421

Lab Sample ID: 480-181708-8

Date Collected: 03/04/21 12:50
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 05:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 05:11	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 05:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*03/06/21 05:11*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*03/06/21 05:11*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/06/21 05:11*	*1*

Client Sample ID: MW-33S 030421

Date Collected: 03/04/21 12:50
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/06/21 05:11*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 16:44	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 16:44	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 16:44	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 16:44	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 16:44	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 16:44	1
Naphthalene	ND		1.0	0.064	ug/L		03/05/21 15:01	03/08/21 16:44	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 16:44	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*102*		*24 - 146*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
2-Fluorobiphenyl	*101*		*37 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
Nitrobenzene-d5 (Surr)	*101*		*26 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
p-Terphenyl-d14	*111*		*64 - 127*	*03/05/21 15:01*	*03/08/21 16:44*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 07:25	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 07:25	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*89*		*25 - 131*	*03/10/21 14:25*	*03/11/21 07:25*	*1*
Nitrobenzene-d5	*82*		*54 - 134*	*03/10/21 14:25*	*03/11/21 07:25*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1.7**	**J**	4.0	1.0	ug/L			03/10/21 18:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.97**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**44.9**		10.0	1.7	mg/L			03/08/21 19:02	5
Ammonia	**0.090**		0.020	0.0090	mg/L			03/08/21 09:55	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:05	1
Nitrate as N	**0.22**		0.050	0.020	mg/L			03/05/21 13:52	1
Alkalinity, Total	**364**		5.0	0.79	mg/L			03/09/21 17:04	1

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-33S 030421

Lab Sample ID: 480-181708-8
Date Collected: 03/04/21 12:50
Matrix: Water
Date Received: 03/05/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: TRIP BLANK 030421

Lab Sample ID: 480-181708-9
Date Collected: 03/04/21 00:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 05:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 05:35	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 05:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/06/21 05:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*03/06/21 05:35*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/06/21 05:35*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/06/21 05:35*	*1*

Surrogate Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-181652-1	MW-C12 030321	108	94	108	98
480-181652-2	MW-C11 030321	104	95	108	98
480-181652-3	MW-45S 030321	108	102	108	100
480-181652-4	DUP	107	104	109	100
480-181652-5	TRIP BLANK 030321	110	102	113	101
480-181652-6	EQUIPMENT BLANK	109	102	109	101
480-181652-7	MW-C16 030321	102	93	110	97
480-181652-8	MW-24S 030321	101	96	105	98
480-181652-9	MW-28S 030321	113	102	113	99
480-181652-10	MW-48S 030321	109	98	117	100
480-181652-10 MS	MW-48S 030321	106	94	110	97
480-181652-10 MSD	MW-48S 030321	111	95	114	102
480-181708-1	MW-25S 030421	109	102	109	94
480-181708-2	MW-46S 030421	118	106	115	94
480-181708-2 - DL	MW-46S 030421	110	97	112	99
480-181708-3	MW-22S 030421	116	98	118	100
480-181708-4	MW-40 030421	109	103	112	92
480-181708-5	MW-31S 030421	111	106	116	98
480-181708-6	MW-47S 030421	108	102	110	91
480-181708-7	MW-23S 030421	106	101	110	92
480-181708-8	MW-33S 030421	112	105	110	94
480-181708-9	TRIP BLANK 030421	107	104	110	92
LCS 480-571455/6	Lab Control Sample	105	94	109	99
LCS 480-571517/6	Lab Control Sample	107	106	107	95
LCS 480-571566/5	Lab Control Sample	103	94	109	98
LCSD 480-571566/6	Lab Control Sample Dup	107	97	113	100
MB 480-571455/8	Method Blank	107	103	110	99
MB 480-571517/8	Method Blank	110	109	113	94
MB 480-571566/8	Method Blank	112	102	114	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(24-146)	(37-120)	(10-120)	(26-120)	(11-120)	(64-127)
480-181652-1	MW-C12 030321	96	90	46	87	30	90
480-181652-1 - DL	MW-C12 030321	90	82	36	105	26	77
480-181652-2	MW-C11 030321	97	91	42	114	29	91
480-181652-3	MW-45S 030321	94	97	50	92	32	95
480-181652-4	DUP	91	87	43	111	29	84
480-181652-6	EQUIPMENT BLANK	91	100	49	95	33	117
480-181652-7	MW-C16 030321	101	94	42	117	29	97
480-181652-8	MW-24S 030321	91	88	46	85	30	105

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-181652-9	MW-28S 030321	82	82	42	80	27	102
480-181652-10	MW-48S 030321	103	98	52	91	34	97
480-181652-10 - DL	MW-48S 030321	86	90	43	97	27	84
480-181652-10 MS	MW-48S 030321	110	102	55	106	36	98
480-181652-10 MS - DL	MW-48S 030321	102	92	46	106	33	79
480-181652-10 MSD	MW-48S 030321	98	94	51	96	33	91
480-181652-10 MSD - DL	MW-48S 030321	88	90	45	101	30	79
480-181708-1	MW-25S 030421	93	90	50	94	35	54 S1-
480-181708-2	MW-46S 030421	0 S1-	100	328 S1+	84	121 S1+	90
480-181708-3	MW-22S 030421	94	93	47	91	30	97
480-181708-4	MW-40 030421	100	98	50	99	32	105
480-181708-5	MW-31S 030421	100	99	53	102	34	109
480-181708-6	MW-47S 030421	91	88	43	83	27	83
480-181708-7	MW-23S 030421	151 S1+	97	94	82	49	88
480-181708-8	MW-33S 030421	102	101	50	101	33	111
LCS 480-571395/2-A	Lab Control Sample	93	96	55	104	37	107
LCS 480-571538/2-A	Lab Control Sample	105	103	57	105	40	109
LCSD 480-571538/3-A	Lab Control Sample Dup	104	101	55	103	39	108
MB 480-571395/1-A	Method Blank	91	101	57	100	38	115
MB 480-571538/1-A	Method Blank	85	92	53	96	35	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	NBZ (54-134)	FBP (25-131)
480-181652-1	MW-C12 030321	77	91
480-181652-2	MW-C11 030321	80	64
480-181652-3	MW-45S 030321	83	93
480-181652-4	DUP	76	62
480-181652-6	EQUIPMENT BLANK	83	94
480-181652-7	MW-C16 030321	80	65
480-181652-8	MW-24S 030321	85	68
480-181652-9	MW-28S 030321	75	60
480-181652-10	MW-48S 030321	78	82
480-181652-10 MS	MW-48S 030321	80	82
480-181652-10 MSD	MW-48S 030321	83	93
480-181708-1	MW-25S 030421	77	84
480-181708-2	MW-46S 030421	69	75
480-181708-3	MW-22S 030421	85	103
480-181708-4	MW-40 030421	83	89
480-181708-5	MW-31S 030421	83	93

Surrogate Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		NBZ	FBP								
Lab Sample ID	Client Sample ID	(54-134)	(25-131)								
480-181708-6	MW-47S 030421	81	84								
480-181708-7	MW-23S 030421	84	94								
480-181708-8	MW-33S 030421	82	89								
LCS 460-763251/2-A	Lab Control Sample	81	92								
LCS 460-763754/4-A	Lab Control Sample	84	83								
LCSD 460-763251/3-A	Lab Control Sample Dup	87	100								
LCSD 460-763754/5-A	Lab Control Sample Dup	85	86								
MB 460-763251/1-A	Method Blank	77	83								
MB 460-763754/1-A	Method Blank	92	90								

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-571455/8
Matrix: Water
Analysis Batch: 571455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 11:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 11:35	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 11:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/05/21 11:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*03/05/21 11:35*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/05/21 11:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/05/21 11:35*	*1*

Lab Sample ID: LCS 480-571455/6
Matrix: Water
Analysis Batch: 571455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.6		ug/L		94	71 - 124
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Toluene	25.0	23.5		ug/L		94	80 - 122
Xylenes, Total	50.0	46.6		ug/L		93	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 480-181652-10 MS
Matrix: Water
Analysis Batch: 571455

Client Sample ID: MW-48S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	35		50.0	71.4		ug/L		73	71 - 124
Ethylbenzene	39	F1	50.0	76.1	F1	ug/L		74	77 - 123
Toluene	ND		50.0	40.9		ug/L		82	80 - 122
Xylenes, Total	18		100	101		ug/L		83	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-181652-10 MSD
Matrix: Water
Analysis Batch: 571455

Client Sample ID: MW-48S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	35		50.0	78.1		ug/L		86	71 - 124	9	13
Ethylbenzene	39	F1	50.0	82.0		ug/L		86	77 - 123	7	15
Toluene	ND		50.0	44.2		ug/L		88	80 - 122	8	15
Xylenes, Total	18		100	108		ug/L		90	76 - 122	7	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*114*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 480-571517/8
Matrix: Water
Analysis Batch: 571517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 23:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 23:10	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 23:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 23:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*03/05/21 23:10*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*03/05/21 23:10*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*03/05/21 23:10*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/05/21 23:10*	*1*

Lab Sample ID: LCS 480-571517/6
Matrix: Water
Analysis Batch: 571517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.8		ug/L		99	71 - 124
Ethylbenzene	25.0	22.6		ug/L		90	77 - 123
Toluene	25.0	22.3		ug/L		89	80 - 122
Xylenes, Total	50.0	45.3		ug/L		91	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-571566/8
Matrix: Water
Analysis Batch: 571566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 11:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 11:58	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 11:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*03/06/21 11:58*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/06/21 11:58*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*03/06/21 11:58*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 11:58*	*1*

Lab Sample ID: LCS 480-571566/5
Matrix: Water
Analysis Batch: 571566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	23.2		ug/L		93	71 - 124		
Ethylbenzene			25.0	24.0		ug/L		96	77 - 123		
Toluene			25.0	23.6		ug/L		94	80 - 122		
Xylenes, Total			50.0	49.0		ug/L		98	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 480-571566/6
Matrix: Water
Analysis Batch: 571566

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	24.7		ug/L		99	71 - 124	6	13
Ethylbenzene			25.0	24.8		ug/L		99	77 - 123	3	15
Toluene			25.0	24.5		ug/L		98	80 - 122	4	15
Xylenes, Total			50.0	50.8		ug/L		102	76 - 122	4	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*113*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-571395/1-A
Matrix: Water
Analysis Batch: 571516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 16:01	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 16:01	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 16:01	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 16:01	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 16:01	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 16:01	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 16:01	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 16:01	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 16:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/04/21 14:56*	*03/05/21 16:01*	*1*
2-Fluorobiphenyl	*101*		*37 - 120*	*03/04/21 14:56*	*03/05/21 16:01*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*03/04/21 14:56*	*03/05/21 16:01*	*1*
Nitrobenzene-d5 (Surr)	*100*		*26 - 120*	*03/04/21 14:56*	*03/05/21 16:01*	*1*
Phenol-d5 (Surr)	*38*		*11 - 120*	*03/04/21 14:56*	*03/05/21 16:01*	*1*
p-Terphenyl-d14	*115*		*64 - 127*	*03/04/21 14:56*	*03/05/21 16:01*	*1*

Lab Sample ID: LCS 480-571395/2-A
Matrix: Water
Analysis Batch: 571516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	8.00	7.76		ug/L		97	62 - 120
Acenaphthylene	8.00	8.10		ug/L		101	57 - 120
Anthracene	8.00	8.35		ug/L		104	65 - 123
Chrysene	8.00	8.32		ug/L		104	75 - 120
Fluoranthene	8.00	8.63		ug/L		108	74 - 133
Fluorene	8.00	8.25		ug/L		103	64 - 120
Naphthalene	8.00	7.27		ug/L		91	40 - 138
Phenanthrene	8.00	8.09		ug/L		101	71 - 122
Pyrene	8.00	8.71		ug/L		109	65 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*24 - 146*
2-Fluorobiphenyl	*96*		*37 - 120*
2-Fluorophenol (Surr)	*55*		*10 - 120*
Nitrobenzene-d5 (Surr)	*104*		*26 - 120*
Phenol-d5 (Surr)	*37*		*11 - 120*
p-Terphenyl-d14	*107*		*64 - 127*

Lab Sample ID: 480-181652-10 MS
Matrix: Water
Analysis Batch: 571516

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 571395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	36	E	8.00	47.3	E 4	ug/L		137	35 - 125
Acenaphthylene	1.4		8.00	10.1		ug/L		109	43 - 141

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 480-181652-10 MS
Matrix: Water
Analysis Batch: 571516

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 571395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1.4		8.00	10.7		ug/L		116	65 - 123
Chrysene	ND		8.00	8.89		ug/L		111	66 - 144
Fluoranthene	0.61		8.00	10.0		ug/L		118	63 - 146
Fluorene	4.0		8.00	12.7		ug/L		108	54 - 137
Naphthalene	41	E	8.00	52.7	E 4	ug/L		153	25 - 138
Phenanthrene	5.1		8.00	15.0		ug/L		123	60 - 143
Pyrene	0.76		8.00	10.8		ug/L		125	65 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*110*		*24 - 146*
2-Fluorobiphenyl	*102*		*37 - 120*
2-Fluorophenol (Surr)	*55*		*10 - 120*
Nitrobenzene-d5 (Surr)	*106*		*26 - 120*
Phenol-d5 (Surr)	*36*		*11 - 120*
p-Terphenyl-d14	*98*		*64 - 127*

Lab Sample ID: 480-181652-10 MSD
Matrix: Water
Analysis Batch: 571516

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 571395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	36	E	8.00	44.4	E 4	ug/L		101	35 - 125	6	24
Acenaphthylene	1.4		8.00	9.42		ug/L		100	43 - 141	7	18
Anthracene	1.4		8.00	9.79		ug/L		105	65 - 123	9	15
Chrysene	ND		8.00	8.07		ug/L		101	66 - 144	10	15
Fluoranthene	0.61		8.00	9.06		ug/L		106	63 - 146	10	15
Fluorene	4.0		8.00	11.8		ug/L		98	54 - 137	7	15
Naphthalene	41	E	8.00	54.1	E 4	ug/L		170	25 - 138	3	29
Phenanthrene	5.1		8.00	13.7		ug/L		107	60 - 143	9	15
Pyrene	0.76		8.00	9.60		ug/L		111	65 - 139	12	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*24 - 146*
2-Fluorobiphenyl	*94*		*37 - 120*
2-Fluorophenol (Surr)	*51*		*10 - 120*
Nitrobenzene-d5 (Surr)	*96*		*26 - 120*
Phenol-d5 (Surr)	*33*		*11 - 120*
p-Terphenyl-d14	*91*		*64 - 127*

Lab Sample ID: MB 480-571538/1-A
Matrix: Water
Analysis Batch: 571657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 11:54	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 11:54	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 11:54	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 11:54	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 480-571538/1-A
Matrix: Water
Analysis Batch: 571657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 11:54	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 11:54	1
Naphthalene	0.0641	J	1.0	0.064	ug/L		03/05/21 15:01	03/08/21 11:54	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 11:54	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*24 - 146*	*03/05/21 15:01*	*03/08/21 11:54*	*1*
2-Fluorobiphenyl	*92*		*37 - 120*	*03/05/21 15:01*	*03/08/21 11:54*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*03/05/21 15:01*	*03/08/21 11:54*	*1*
Nitrobenzene-d5 (Surr)	*96*		*26 - 120*	*03/05/21 15:01*	*03/08/21 11:54*	*1*
Phenol-d5 (Surr)	*35*		*11 - 120*	*03/05/21 15:01*	*03/08/21 11:54*	*1*
p-Terphenyl-d14	*104*		*64 - 127*	*03/05/21 15:01*	*03/08/21 11:54*	*1*

Lab Sample ID: LCS 480-571538/2-A
Matrix: Water
Analysis Batch: 571657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	8.00	8.27		ug/L		103	62 - 120
Acenaphthylene	8.00	8.53		ug/L		107	57 - 120
Anthracene	8.00	8.12		ug/L		102	65 - 123
Chrysene	8.00	8.82		ug/L		110	75 - 120
Fluoranthene	8.00	9.07		ug/L		113	74 - 133
Fluorene	8.00	8.65		ug/L		108	64 - 120
Naphthalene	8.00	7.61		ug/L		95	40 - 138
Phenanthrene	8.00	9.02		ug/L		113	71 - 122
Pyrene	8.00	8.43		ug/L		105	65 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*24 - 146*
2-Fluorobiphenyl	*103*		*37 - 120*
2-Fluorophenol (Surr)	*57*		*10 - 120*
Nitrobenzene-d5 (Surr)	*105*		*26 - 120*
Phenol-d5 (Surr)	*40*		*11 - 120*
p-Terphenyl-d14	*109*		*64 - 127*

Lab Sample ID: LCSD 480-571538/3-A
Matrix: Water
Analysis Batch: 571657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 571538

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	8.00	8.21		ug/L		103	62 - 120	1	30
Acenaphthylene	8.00	8.46		ug/L		106	57 - 120	1	30
Anthracene	8.00	7.89		ug/L		99	65 - 123	3	25
Chrysene	8.00	8.91		ug/L		111	75 - 120	1	18
Fluoranthene	8.00	8.16		ug/L		102	74 - 133	11	26
Fluorene	8.00	8.52		ug/L		106	64 - 120	2	28

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 480-571538/3-A
Matrix: Water
Analysis Batch: 571657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 571538

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			8.00	7.62		ug/L		95	40 - 138	0	32
Phenanthrene			8.00	9.08		ug/L		114	71 - 122	1	24
Pyrene			8.00	8.42		ug/L		105	65 - 126	0	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 146*
2-Fluorobiphenyl	*101*		*37 - 120*
2-Fluorophenol (Surr)	*55*		*10 - 120*
Nitrobenzene-d5 (Surr)	*103*		*26 - 120*
Phenol-d5 (Surr)	*39*		*11 - 120*
p-Terphenyl-d14	*108*		*64 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Lab Sample ID: 480-181652-10 MS
Matrix: Water
Analysis Batch: 571718

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 571395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene - DL	33		8.00	44.9	4	ug/L		143	35 - 125
Acenaphthylene - DL	1.2	J	8.00	9.19		ug/L		100	43 - 141
Anthracene - DL	1.2	J	8.00	9.72		ug/L		106	65 - 123
Chrysene - DL	ND		8.00	7.76		ug/L		97	66 - 144
Fluoranthene - DL	ND		8.00	8.87		ug/L		111	63 - 146
Fluorene - DL	3.5	J	8.00	11.6		ug/L		102	54 - 137
Naphthalene - DL	44		8.00	63.3	4	ug/L		236	25 - 138
Phenanthrene - DL	4.5		8.00	13.0		ug/L		107	60 - 143
Pyrene - DL	ND		8.00	9.02		ug/L		113	65 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr) - DL	*102*		*24 - 146*
2-Fluorobiphenyl - DL	*92*		*37 - 120*
2-Fluorophenol (Surr) - DL	*46*		*10 - 120*
Nitrobenzene-d5 (Surr) - DL	*106*		*26 - 120*
Phenol-d5 (Surr) - DL	*33*		*11 - 120*
p-Terphenyl-d14 - DL	*79*		*64 - 127*

Lab Sample ID: 480-181652-10 MSD
Matrix: Water
Analysis Batch: 571718

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 571395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene - DL	33		8.00	44.4	4	ug/L		136	35 - 125	1	24
Acenaphthylene - DL	1.2	J	8.00	8.78		ug/L		95	43 - 141	5	18
Anthracene - DL	1.2	J	8.00	10.0		ug/L		110	65 - 123	3	15
Chrysene - DL	ND		8.00	7.54		ug/L		94	66 - 144	3	15
Fluoranthene - DL	ND		8.00	9.06		ug/L		113	63 - 146	2	15
Fluorene - DL	3.5	J	8.00	11.3		ug/L		98	54 - 137	3	15

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Lab Sample ID: 480-181652-10 MSD
Matrix: Water
Analysis Batch: 571718

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 571395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene - DL	44		8.00	68.7	4	ug/L		303	25 - 138	8	29
Phenanthrene - DL	4.5		8.00	13.2		ug/L		109	60 - 143	1	15
Pyrene - DL	ND		8.00	8.60		ug/L		108	65 - 139	5	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr) - DL	*88*		*24 - 146*
2-Fluorobiphenyl - DL	*90*		*37 - 120*
2-Fluorophenol (Surr) - DL	*45*		*10 - 120*
Nitrobenzene-d5 (Surr) - DL	*101*		*26 - 120*
Phenol-d5 (Surr) - DL	*30*		*11 - 120*
p-Terphenyl-d14 - DL	*79*		*64 - 127*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 460-763251/1-A
Matrix: Water
Analysis Batch: 763311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 763251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 01:22	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 01:22	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 01:22	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 01:22	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 01:22	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 01:22	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*25 - 131*	*03/08/21 16:57*	*03/09/21 01:22*	*1*
Nitrobenzene-d5	*77*		*54 - 134*	*03/08/21 16:57*	*03/09/21 01:22*	*1*

Lab Sample ID: LCS 460-763251/2-A
Matrix: Water
Analysis Batch: 763311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 763251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	0.800	0.736		ug/L		92	52 - 143
Benzo[a]pyrene	0.800	0.716		ug/L		90	43 - 150
Benzo[b]fluoranthene	0.800	0.713		ug/L		89	46 - 150
Benzo[g,h,i]perylene	0.800	0.641		ug/L		80	51 - 150
Benzo[k]fluoranthene	0.800	0.673		ug/L		84	44 - 150
Dibenz(a,h)anthracene	0.800	0.679		ug/L		85	48 - 150
Indeno[1,2,3-cd]pyrene	0.800	0.688		ug/L		86	44 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*25 - 131*
Nitrobenzene-d5	*81*		*54 - 134*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 460-763251/3-A
Matrix: Water
Analysis Batch: 763311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 763251

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene			0.800	0.804		ug/L		100	52 - 143	9	30
Benzo[a]pyrene			0.800	0.816		ug/L		102	43 - 150	13	30
Benzo[b]fluoranthene			0.800	0.770		ug/L		96	46 - 150	8	30
Benzo[g,h,i]perylene			0.800	0.703		ug/L		88	51 - 150	9	30
Benzo[k]fluoranthene			0.800	0.722		ug/L		90	44 - 150	7	30
Dibenz(a,h)anthracene			0.800	0.733		ug/L		92	48 - 150	8	30
Indeno[1,2,3-cd]pyrene			0.800	0.770		ug/L		96	44 - 150	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*25 - 131*
Nitrobenzene-d5	*87*		*54 - 134*

Lab Sample ID: 480-181652-10 MS
Matrix: Water
Analysis Batch: 763311

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 763251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzo[a]anthracene	0.043	J	0.800	0.869		ug/L		103	52 - 143		
Benzo[a]pyrene	ND		0.800	0.782		ug/L		98	43 - 150		
Benzo[b]fluoranthene	ND		0.800	0.722		ug/L		90	46 - 150		
Benzo[g,h,i]perylene	ND		0.800	0.701		ug/L		88	51 - 150		
Benzo[k]fluoranthene	ND		0.800	0.627		ug/L		78	44 - 150		
Dibenz(a,h)anthracene	ND		0.800	0.643		ug/L		80	48 - 150		
Indeno[1,2,3-cd]pyrene	ND		0.800	0.679		ug/L		85	44 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*80*		*54 - 134*
2-Fluorobiphenyl	*82*		*25 - 131*

Lab Sample ID: 480-181652-10 MSD
Matrix: Water
Analysis Batch: 763311

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 763251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	0.043	J	0.800	0.910		ug/L		108	52 - 143	5	30
Benzo[a]pyrene	ND		0.800	0.792		ug/L		99	43 - 150	1	30
Benzo[b]fluoranthene	ND		0.800	0.656		ug/L		82	46 - 150	10	30
Benzo[g,h,i]perylene	ND		0.800	0.679		ug/L		85	51 - 150	3	30
Benzo[k]fluoranthene	ND		0.800	0.733		ug/L		92	44 - 150	16	30
Dibenz(a,h)anthracene	ND		0.800	0.588		ug/L		74	48 - 150	9	30
Indeno[1,2,3-cd]pyrene	ND		0.800	0.675		ug/L		84	44 - 150	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*83*		*54 - 134*
2-Fluorobiphenyl	*93*		*25 - 131*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 460-763754/1-A
Matrix: Water
Analysis Batch: 763912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 763754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 00:45	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 00:45	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 00:45	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 00:45	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/10/21 14:25	03/11/21 00:45	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 00:45	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*25 - 131*	*03/10/21 14:25*	*03/11/21 00:45*	*1*
Nitrobenzene-d5	*92*		*54 - 134*	*03/10/21 14:25*	*03/11/21 00:45*	*1*

Lab Sample ID: LCS 460-763754/4-A
Matrix: Water
Analysis Batch: 763912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 763754

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzo[a]anthracene			0.800	0.784		ug/L		98	52 - 143		
Benzo[a]pyrene			0.800	0.631		ug/L		79	43 - 150		
Benzo[b]fluoranthene			0.800	0.777		ug/L		97	46 - 150		
Benzo[g,h,i]perylene			0.800	0.779		ug/L		97	51 - 150		
Benzo[k]fluoranthene			0.800	0.764		ug/L		96	44 - 150		
Dibenz(a,h)anthracene			0.800	0.913		ug/L		114	48 - 150		
Indeno[1,2,3-cd]pyrene			0.800	0.838		ug/L		105	44 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*25 - 131*
Nitrobenzene-d5	*84*		*54 - 134*

Lab Sample ID: LCSD 460-763754/5-A
Matrix: Water
Analysis Batch: 763912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 763754

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene			0.800	0.782		ug/L		98	52 - 143	0	30
Benzo[a]pyrene			0.800	0.527		ug/L		66	43 - 150	18	30
Benzo[b]fluoranthene			0.800	0.673		ug/L		84	46 - 150	14	30
Benzo[g,h,i]perylene			0.800	0.680		ug/L		85	51 - 150	13	30
Benzo[k]fluoranthene			0.800	0.848		ug/L		106	44 - 150	10	30
Dibenz(a,h)anthracene			0.800	0.802		ug/L		100	48 - 150	13	30
Indeno[1,2,3-cd]pyrene			0.800	0.715		ug/L		89	44 - 150	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*86*		*25 - 131*
Nitrobenzene-d5	*85*		*54 - 134*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-571397/3
Matrix: Water
Analysis Batch: 571397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/04/21 15:28	1

Lab Sample ID: LCS 480-571397/4
Matrix: Water
Analysis Batch: 571397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.2	17.9		ug/L		93	85 - 120

Lab Sample ID: LCSD 480-571397/5
Matrix: Water
Analysis Batch: 571397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	19.2	18.1		ug/L		94	85 - 120	1	50

Lab Sample ID: MB 480-572034/28
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 23:10	1

Lab Sample ID: MB 480-572034/3
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 15:15	1

Lab Sample ID: LCS 480-572034/29
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.2	18.2		ug/L		95	85 - 120

Lab Sample ID: LCS 480-572034/4
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.2	18.4		ug/L		96	85 - 120

Lab Sample ID: LCSD 480-572034/30
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	19.2	18.1		ug/L		94	85 - 120	0	50

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: LCSD 480-572034/5
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane			19.2	18.5		ug/L		96	85 - 120	1	50

Lab Sample ID: MB 480-572179/3
Matrix: Water
Analysis Batch: 572179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/11/21 12:42	1

Lab Sample ID: LCS 480-572179/4
Matrix: Water
Analysis Batch: 572179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane			19.2	18.7		ug/L		97	85 - 120		

Lab Sample ID: LCSD 480-572179/5
Matrix: Water
Analysis Batch: 572179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane			19.2	18.7		ug/L		97	85 - 120	0	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-571537/1-A
Matrix: Water
Analysis Batch: 572294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		03/08/21 11:31	03/11/21 13:40	1

Lab Sample ID: LCS 480-571537/2-A
Matrix: Water
Analysis Batch: 572294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571537

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	10.11		mg/L		101	80 - 120		

Lab Sample ID: MB 480-571641/1-A
Matrix: Water
Analysis Batch: 571943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 21:26	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-571641/2-A
Matrix: Water
Analysis Batch: 571943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571641

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	10.26		mg/L		103	80 - 120		

Lab Sample ID: LCSD 480-571641/3-A
Matrix: Water
Analysis Batch: 571943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 571641

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			10.0	10.06		mg/L		101	80 - 120	2	20

Lab Sample ID: 480-181708-3 MS
Matrix: Water
Analysis Batch: 571943

Client Sample ID: MW-22S 030421
Prep Type: Total/NA
Prep Batch: 571641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron	0.73		10.0	10.51		mg/L		98	75 - 125		

Lab Sample ID: 480-181708-3 MSD
Matrix: Water
Analysis Batch: 571943

Client Sample ID: MW-22S 030421
Prep Type: Total/NA
Prep Batch: 571641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.73		10.0	10.66		mg/L		99	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-571481/4
Matrix: Water
Analysis Batch: 571481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		2.0	0.35	mg/L			03/05/21 12:04	1

Lab Sample ID: LCS 480-571481/3
Matrix: Water
Analysis Batch: 571481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			50.0	54.10		mg/L		108	90 - 110		

Lab Sample ID: 480-181652-9 MS
Matrix: Water
Analysis Batch: 571481

Client Sample ID: MW-28S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	14.4		250	271.1		mg/L		103	80 - 120		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-181652-9 MSD
Matrix: Water
Analysis Batch: 571481

Client Sample ID: MW-28S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	14.4		250	270.9		mg/L		103	80 - 120	0	15

Lab Sample ID: MB 480-571666/28
Matrix: Water
Analysis Batch: 571666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		2.0	0.35	mg/L			03/08/21 18:47	1

Lab Sample ID: MB 480-571666/4
Matrix: Water
Analysis Batch: 571666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		2.0	0.35	mg/L			03/08/21 12:57	1

Lab Sample ID: LCS 480-571666/27
Matrix: Water
Analysis Batch: 571666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	53.82		mg/L		108	90 - 110

Lab Sample ID: LCS 480-571666/3
Matrix: Water
Analysis Batch: 571666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	50.73		mg/L		101	90 - 110

Lab Sample ID: 480-181708-7 MS
Matrix: Water
Analysis Batch: 571666

Client Sample ID: MW-23S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.8	J	250	257.4		mg/L		101	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-571438/3
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/05/21 06:26	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-571438/51
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/05/21 07:08	1

Lab Sample ID: LCS 480-571438/4
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			1.00	1.08		mg/L		108	90 - 110		

Lab Sample ID: LCS 480-571438/52
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			1.00	1.07		mg/L		107	90 - 110		

Lab Sample ID: 480-181652-9 MS
Matrix: Water
Analysis Batch: 571438

Client Sample ID: MW-28S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	0.88		0.200	1.09	4	mg/L		107	90 - 110		

Lab Sample ID: 480-181652-9 DU
Matrix: Water
Analysis Batch: 571438

Client Sample ID: MW-28S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	0.88			0.863		mg/L				2	20

Lab Sample ID: MB 480-571676/27
Matrix: Water
Analysis Batch: 571676

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/08/21 09:45	1

Lab Sample ID: MB 480-571676/51
Matrix: Water
Analysis Batch: 571676

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/08/21 10:06	1

Lab Sample ID: LCS 480-571676/28
Matrix: Water
Analysis Batch: 571676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			1.00	1.04		mg/L		104	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-571676/52
Matrix: Water
Analysis Batch: 571676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			1.00	1.04		mg/L		104	90 - 110		

Lab Sample ID: 480-181708-1 MS
Matrix: Water
Analysis Batch: 571676

Client Sample ID: MW-25S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND	F1	0.200	0.172	F1	mg/L		86	90 - 110		

Lab Sample ID: 480-181708-8 MS
Matrix: Water
Analysis Batch: 571676

Client Sample ID: MW-33S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	0.090		0.200	0.300		mg/L		105	90 - 110		

Lab Sample ID: 480-181708-8 DU
Matrix: Water
Analysis Batch: 571676

Client Sample ID: MW-33S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	0.090			0.0920		mg/L				3	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-571422/1-A
Matrix: Water
Analysis Batch: 571555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 19:59	1

Lab Sample ID: LCS 480-571422/2-A
Matrix: Water
Analysis Batch: 571555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571422

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.243		mg/L		97	90 - 110		

Lab Sample ID: 480-181652-10 MS
Matrix: Water
Analysis Batch: 571555

Client Sample ID: MW-48S 030321
Prep Type: Total/NA
Prep Batch: 571422

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND		0.100	0.101		mg/L		101	90 - 110		

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 480-181652-10 MSD — **Client Sample ID: MW-48S 030321**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 571555 — **Prep Batch: 571422**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.100	0.0946		mg/L		95	90 - 110	7	15

Lab Sample ID: MB 480-571757/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 571900 — **Prep Batch: 571757**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 19:36	1

Lab Sample ID: LCS 480-571757/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 571900 — **Prep Batch: 571757**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.361		mg/L		90	90 - 110

Lab Sample ID: LCS 480-571757/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 571900 — **Prep Batch: 571757**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.232		mg/L		93	90 - 110

Lab Sample ID: 480-181708-8 MS — **Client Sample ID: MW-33S 030421**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 571900 — **Prep Batch: 571757**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.100	0.0933		mg/L		93	90 - 110

Lab Sample ID: MB 480-572059/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 572242 — **Prep Batch: 572059**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/10/21 21:43	03/11/21 18:29	1

Lab Sample ID: LCS 480-572059/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 572242 — **Prep Batch: 572059**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.391		mg/L		98	90 - 110

Lab Sample ID: LCS 480-572059/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 572242 — **Prep Batch: 572059**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/L		102	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-571763/28
Matrix: Water
Analysis Batch: 571763

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			03/08/21 16:52	1

Lab Sample ID: MB 480-571763/4
Matrix: Water
Analysis Batch: 571763

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			03/08/21 13:52	1

Lab Sample ID: MB 480-571763/76
Matrix: Water
Analysis Batch: 571763

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			03/08/21 22:03	1

Lab Sample ID: LCS 480-571763/29
Matrix: Water
Analysis Batch: 571763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			100	96.72		mg/L		97	90 - 110		

Lab Sample ID: LCS 480-571763/5
Matrix: Water
Analysis Batch: 571763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			100	99.28		mg/L		99	90 - 110		

Lab Sample ID: 480-181652-7 MS
Matrix: Water
Analysis Batch: 571763

Client Sample ID: MW-C16 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	615		100	648.6	4	mg/L		34	60 - 140		

Lab Sample ID: 480-181652-3 DU
Matrix: Water
Analysis Batch: 571763

Client Sample ID: MW-45S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total	365			367.8		mg/L				0.7	20

Lab Sample ID: MB 480-571987/4
Matrix: Water
Analysis Batch: 571987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			03/09/21 15:42	1

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 480-571987/5
Matrix: Water
Analysis Batch: 571987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.56		mg/L		99	90 - 110

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-571831/27
Matrix: Water
Analysis Batch: 571831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			03/06/21 16:20	1

Lab Sample ID: MB 480-571831/3
Matrix: Water
Analysis Batch: 571831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			03/06/21 16:20	1

Lab Sample ID: LCS 480-571831/28
Matrix: Water
Analysis Batch: 571831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	2.00		mg/L		100	90 - 110

Lab Sample ID: LCS 480-571831/4
Matrix: Water
Analysis Batch: 571831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	2.00		mg/L		100	90 - 110

Lab Sample ID: 480-181652-2 MS
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-C11 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.17	HF	1.00	1.07		mg/L		89	70 - 130

Lab Sample ID: 480-181652-10 MS
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-48S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	1.02		mg/L		102	70 - 130

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 480-181708-6 MS
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-47S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron	ND	HF	1.00	0.982		mg/L		98	70 - 130		

Lab Sample ID: 480-181708-8 MS
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-33S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron	ND	HF	1.00	1.10		mg/L		110	70 - 130		

Lab Sample ID: 480-181652-1 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-C12 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181652-2 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-C11 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	0.17	HF		0.165		mg/L				4	20

Lab Sample ID: 480-181652-3 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-45S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181652-7 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-C16 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181652-8 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-24S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181652-9 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-28S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: 480-181652-10 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-48S 030321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181708-1 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-25S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181708-2 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-46S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	0.20	HF		0.196		mg/L				0	20

Lab Sample ID: 480-181708-3 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-22S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181708-4 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-40 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181708-5 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-31S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181708-6 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-47S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-181708-7 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-23S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: 480-181708-8 DU
Matrix: Water
Analysis Batch: 571831

Client Sample ID: MW-33S 030421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

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Analysis Batch: 571455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	8260C	
480-181652-2	MW-C11 030321	Total/NA	Water	8260C	
480-181652-3	MW-45S 030321	Total/NA	Water	8260C	
480-181652-4	DUP	Total/NA	Water	8260C	
480-181652-5	TRIP BLANK 030321	Total/NA	Water	8260C	
480-181652-6	EQUIPMENT BLANK	Total/NA	Water	8260C	
480-181652-7	MW-C16 030321	Total/NA	Water	8260C	
480-181652-8	MW-24S 030321	Total/NA	Water	8260C	
480-181652-9	MW-28S 030321	Total/NA	Water	8260C	
480-181652-10	MW-48S 030321	Total/NA	Water	8260C	
MB 480-571455/8	Method Blank	Total/NA	Water	8260C	
LCS 480-571455/6	Lab Control Sample	Total/NA	Water	8260C	
480-181652-10 MS	MW-48S 030321	Total/NA	Water	8260C	
480-181652-10 MSD	MW-48S 030321	Total/NA	Water	8260C	

Analysis Batch: 571517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	8260C	
480-181708-2	MW-46S 030421	Total/NA	Water	8260C	
480-181708-4	MW-40 030421	Total/NA	Water	8260C	
480-181708-5	MW-31S 030421	Total/NA	Water	8260C	
480-181708-6	MW-47S 030421	Total/NA	Water	8260C	
480-181708-7	MW-23S 030421	Total/NA	Water	8260C	
480-181708-8	MW-33S 030421	Total/NA	Water	8260C	
480-181708-9	TRIP BLANK 030421	Total/NA	Water	8260C	
MB 480-571517/8	Method Blank	Total/NA	Water	8260C	
LCS 480-571517/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 571566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-2 - DL	MW-46S 030421	Total/NA	Water	8260C	
480-181708-3	MW-22S 030421	Total/NA	Water	8260C	
MB 480-571566/8	Method Blank	Total/NA	Water	8260C	
LCS 480-571566/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-571566/6	Lab Control Sample Dup	Total/NA	Water	8260C	

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Prep Batch: 571395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	3510C	
480-181652-1 - DL	MW-C12 030321	Total/NA	Water	3510C	
480-181652-2	MW-C11 030321	Total/NA	Water	3510C	
480-181652-3	MW-45S 030321	Total/NA	Water	3510C	
480-181652-4	DUP	Total/NA	Water	3510C	
480-181652-6	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-181652-7	MW-C16 030321	Total/NA	Water	3510C	
480-181652-8	MW-24S 030321	Total/NA	Water	3510C	
480-181652-9	MW-28S 030321	Total/NA	Water	3510C	
480-181652-10 - DL	MW-48S 030321	Total/NA	Water	3510C	
480-181652-10	MW-48S 030321	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 571395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-571395/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-571395/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-181652-10 MS - DL	MW-48S 030321	Total/NA	Water	3510C	
480-181652-10 MS	MW-48S 030321	Total/NA	Water	3510C	
480-181652-10 MSD	MW-48S 030321	Total/NA	Water	3510C	
480-181652-10 MSD - DL	MW-48S 030321	Total/NA	Water	3510C	

Analysis Batch: 571516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	8270D LL	571395
480-181652-2	MW-C11 030321	Total/NA	Water	8270D LL	571395
480-181652-3	MW-45S 030321	Total/NA	Water	8270D LL	571395
480-181652-4	DUP	Total/NA	Water	8270D LL	571395
480-181652-6	EQUIPMENT BLANK	Total/NA	Water	8270D LL	571395
480-181652-7	MW-C16 030321	Total/NA	Water	8270D LL	571395
480-181652-8	MW-24S 030321	Total/NA	Water	8270D LL	571395
480-181652-9	MW-28S 030321	Total/NA	Water	8270D LL	571395
480-181652-10	MW-48S 030321	Total/NA	Water	8270D LL	571395
MB 480-571395/1-A	Method Blank	Total/NA	Water	8270D LL	571395
LCS 480-571395/2-A	Lab Control Sample	Total/NA	Water	8270D LL	571395
480-181652-10 MS	MW-48S 030321	Total/NA	Water	8270D LL	571395
480-181652-10 MSD	MW-48S 030321	Total/NA	Water	8270D LL	571395

Prep Batch: 571538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	3510C	
480-181708-2	MW-46S 030421	Total/NA	Water	3510C	
480-181708-3	MW-22S 030421	Total/NA	Water	3510C	
480-181708-4	MW-40 030421	Total/NA	Water	3510C	
480-181708-5	MW-31S 030421	Total/NA	Water	3510C	
480-181708-6	MW-47S 030421	Total/NA	Water	3510C	
480-181708-7	MW-23S 030421	Total/NA	Water	3510C	
480-181708-8	MW-33S 030421	Total/NA	Water	3510C	
MB 480-571538/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-571538/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-571538/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 571657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	8270D LL	571538
480-181708-2	MW-46S 030421	Total/NA	Water	8270D LL	571538
480-181708-3	MW-22S 030421	Total/NA	Water	8270D LL	571538
480-181708-4	MW-40 030421	Total/NA	Water	8270D LL	571538
480-181708-5	MW-31S 030421	Total/NA	Water	8270D LL	571538
480-181708-6	MW-47S 030421	Total/NA	Water	8270D LL	571538
480-181708-7	MW-23S 030421	Total/NA	Water	8270D LL	571538
480-181708-8	MW-33S 030421	Total/NA	Water	8270D LL	571538
MB 480-571538/1-A	Method Blank	Total/NA	Water	8270D LL	571538
LCS 480-571538/2-A	Lab Control Sample	Total/NA	Water	8270D LL	571538
LCSD 480-571538/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	571538

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Analysis Batch: 571718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1 - DL	MW-C12 030321	Total/NA	Water	8270D LL	571395
480-181652-10 - DL	MW-48S 030321	Total/NA	Water	8270D LL	571395
480-181652-10 MS - DL	MW-48S 030321	Total/NA	Water	8270D LL	571395
480-181652-10 MSD - DL	MW-48S 030321	Total/NA	Water	8270D LL	571395

Prep Batch: 763251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	3510C	
480-181652-2	MW-C11 030321	Total/NA	Water	3510C	
480-181652-3	MW-45S 030321	Total/NA	Water	3510C	
480-181652-4	DUP	Total/NA	Water	3510C	
480-181652-6	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-181652-7	MW-C16 030321	Total/NA	Water	3510C	
480-181652-8	MW-24S 030321	Total/NA	Water	3510C	
480-181652-9	MW-28S 030321	Total/NA	Water	3510C	
480-181652-10	MW-48S 030321	Total/NA	Water	3510C	
MB 460-763251/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-763251/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-763251/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
480-181652-10 MS	MW-48S 030321	Total/NA	Water	3510C	
480-181652-10 MSD	MW-48S 030321	Total/NA	Water	3510C	

Analysis Batch: 763311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	8270E SIM	763251
480-181652-3	MW-45S 030321	Total/NA	Water	8270E SIM	763251
480-181652-6	EQUIPMENT BLANK	Total/NA	Water	8270E SIM	763251
480-181652-10	MW-48S 030321	Total/NA	Water	8270E SIM	763251
MB 460-763251/1-A	Method Blank	Total/NA	Water	8270E SIM	763251
LCS 460-763251/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	763251
LCSD 460-763251/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	763251
480-181652-10 MS	MW-48S 030321	Total/NA	Water	8270E SIM	763251
480-181652-10 MSD	MW-48S 030321	Total/NA	Water	8270E SIM	763251

Analysis Batch: 763426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-2	MW-C11 030321	Total/NA	Water	8270E SIM	763251
480-181652-4	DUP	Total/NA	Water	8270E SIM	763251
480-181652-7	MW-C16 030321	Total/NA	Water	8270E SIM	763251
480-181652-8	MW-24S 030321	Total/NA	Water	8270E SIM	763251
480-181652-9	MW-28S 030321	Total/NA	Water	8270E SIM	763251

Prep Batch: 763754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	3510C	
480-181708-2	MW-46S 030421	Total/NA	Water	3510C	
480-181708-3	MW-22S 030421	Total/NA	Water	3510C	
480-181708-4	MW-40 030421	Total/NA	Water	3510C	
480-181708-5	MW-31S 030421	Total/NA	Water	3510C	
480-181708-6	MW-47S 030421	Total/NA	Water	3510C	
480-181708-7	MW-23S 030421	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 763754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-8	MW-33S 030421	Total/NA	Water	3510C	
MB 460-763754/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-763754/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-763754/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 763912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	8270E SIM	763754
480-181708-2	MW-46S 030421	Total/NA	Water	8270E SIM	763754
480-181708-3	MW-22S 030421	Total/NA	Water	8270E SIM	763754
480-181708-4	MW-40 030421	Total/NA	Water	8270E SIM	763754
480-181708-5	MW-31S 030421	Total/NA	Water	8270E SIM	763754
480-181708-6	MW-47S 030421	Total/NA	Water	8270E SIM	763754
480-181708-7	MW-23S 030421	Total/NA	Water	8270E SIM	763754
480-181708-8	MW-33S 030421	Total/NA	Water	8270E SIM	763754
MB 460-763754/1-A	Method Blank	Total/NA	Water	8270E SIM	763754
LCS 460-763754/4-A	Lab Control Sample	Total/NA	Water	8270E SIM	763754
LCSD 460-763754/5-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	763754

GC VOA

Analysis Batch: 571397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	RSK-175	
480-181652-2	MW-C11 030321	Total/NA	Water	RSK-175	
480-181652-3	MW-45S 030321	Total/NA	Water	RSK-175	
480-181652-7	MW-C16 030321	Total/NA	Water	RSK-175	
480-181652-8	MW-24S 030321	Total/NA	Water	RSK-175	
480-181652-9	MW-28S 030321	Total/NA	Water	RSK-175	
480-181652-10	MW-48S 030321	Total/NA	Water	RSK-175	
MB 480-571397/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-571397/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-571397/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 572034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	RSK-175	
480-181708-2	MW-46S 030421	Total/NA	Water	RSK-175	
480-181708-3	MW-22S 030421	Total/NA	Water	RSK-175	
480-181708-4	MW-40 030421	Total/NA	Water	RSK-175	
480-181708-5	MW-31S 030421	Total/NA	Water	RSK-175	
480-181708-8	MW-33S 030421	Total/NA	Water	RSK-175	
MB 480-572034/28	Method Blank	Total/NA	Water	RSK-175	
MB 480-572034/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-572034/29	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 480-572034/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-572034/30	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 480-572034/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC VOA

Analysis Batch: 572179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-6	MW-47S 030421	Total/NA	Water	RSK-175	
480-181708-7	MW-23S 030421	Total/NA	Water	RSK-175	
MB 480-572179/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-572179/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-572179/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 571537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	3005A	
480-181652-2	MW-C11 030321	Total/NA	Water	3005A	
480-181652-3	MW-45S 030321	Total/NA	Water	3005A	
480-181652-7	MW-C16 030321	Total/NA	Water	3005A	
480-181652-8	MW-24S 030321	Total/NA	Water	3005A	
480-181652-9	MW-28S 030321	Total/NA	Water	3005A	
480-181652-10	MW-48S 030321	Total/NA	Water	3005A	
MB 480-571537/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-571537/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 571641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	3005A	
480-181708-2	MW-46S 030421	Total/NA	Water	3005A	
480-181708-3	MW-22S 030421	Total/NA	Water	3005A	
480-181708-4	MW-40 030421	Total/NA	Water	3005A	
480-181708-5	MW-31S 030421	Total/NA	Water	3005A	
480-181708-6	MW-47S 030421	Total/NA	Water	3005A	
480-181708-7	MW-23S 030421	Total/NA	Water	3005A	
480-181708-8	MW-33S 030421	Total/NA	Water	3005A	
MB 480-571641/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-571641/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-571641/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-181708-3 MS	MW-22S 030421	Total/NA	Water	3005A	
480-181708-3 MSD	MW-22S 030421	Total/NA	Water	3005A	

Analysis Batch: 571943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	6010C	571641
480-181708-2	MW-46S 030421	Total/NA	Water	6010C	571641
480-181708-3	MW-22S 030421	Total/NA	Water	6010C	571641
480-181708-4	MW-40 030421	Total/NA	Water	6010C	571641
480-181708-5	MW-31S 030421	Total/NA	Water	6010C	571641
480-181708-6	MW-47S 030421	Total/NA	Water	6010C	571641
480-181708-7	MW-23S 030421	Total/NA	Water	6010C	571641
480-181708-8	MW-33S 030421	Total/NA	Water	6010C	571641
MB 480-571641/1-A	Method Blank	Total/NA	Water	6010C	571641
LCS 480-571641/2-A	Lab Control Sample	Total/NA	Water	6010C	571641
LCSD 480-571641/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	571641
480-181708-3 MS	MW-22S 030421	Total/NA	Water	6010C	571641
480-181708-3 MSD	MW-22S 030421	Total/NA	Water	6010C	571641

Metals

Analysis Batch: 572132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	6010C	571537
480-181652-2	MW-C11 030321	Total/NA	Water	6010C	571537
480-181652-3	MW-45S 030321	Total/NA	Water	6010C	571537
480-181652-7	MW-C16 030321	Total/NA	Water	6010C	571537
480-181652-8	MW-24S 030321	Total/NA	Water	6010C	571537
480-181652-9	MW-28S 030321	Total/NA	Water	6010C	571537
480-181652-10	MW-48S 030321	Total/NA	Water	6010C	571537

Analysis Batch: 572294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-571537/1-A	Method Blank	Total/NA	Water	6010C	571537
LCS 480-571537/2-A	Lab Control Sample	Total/NA	Water	6010C	571537

General Chemistry

Prep Batch: 571422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	9012B	
480-181652-2	MW-C11 030321	Total/NA	Water	9012B	
480-181652-3	MW-45S 030321	Total/NA	Water	9012B	
480-181652-4	DUP	Total/NA	Water	9012B	
480-181652-6	EQUIPMENT BLANK	Total/NA	Water	9012B	
480-181652-7	MW-C16 030321	Total/NA	Water	9012B	
480-181652-8	MW-24S 030321	Total/NA	Water	9012B	
480-181652-9	MW-28S 030321	Total/NA	Water	9012B	
480-181652-10	MW-48S 030321	Total/NA	Water	9012B	
MB 480-571422/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-571422/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-181652-10 MS	MW-48S 030321	Total/NA	Water	9012B	
480-181652-10 MSD	MW-48S 030321	Total/NA	Water	9012B	

Analysis Batch: 571424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	Nitrate by calc	
480-181652-2	MW-C11 030321	Total/NA	Water	Nitrate by calc	
480-181652-3	MW-45S 030321	Total/NA	Water	Nitrate by calc	
480-181652-7	MW-C16 030321	Total/NA	Water	Nitrate by calc	
480-181652-8	MW-24S 030321	Total/NA	Water	Nitrate by calc	
480-181652-9	MW-28S 030321	Total/NA	Water	Nitrate by calc	
480-181652-10	MW-48S 030321	Total/NA	Water	Nitrate by calc	

Analysis Batch: 571438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	350.1	
480-181652-2	MW-C11 030321	Total/NA	Water	350.1	
480-181652-3	MW-45S 030321	Total/NA	Water	350.1	
480-181652-7	MW-C16 030321	Total/NA	Water	350.1	
480-181652-8	MW-24S 030321	Total/NA	Water	350.1	
480-181652-9	MW-28S 030321	Total/NA	Water	350.1	
480-181652-10	MW-48S 030321	Total/NA	Water	350.1	
MB 480-571438/3	Method Blank	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 571438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-571438/51	Method Blank	Total/NA	Water	350.1	
LCS 480-571438/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-571438/52	Lab Control Sample	Total/NA	Water	350.1	
480-181652-9 MS	MW-28S 030321	Total/NA	Water	350.1	
480-181652-9 DU	MW-28S 030321	Total/NA	Water	350.1	

Analysis Batch: 571481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	300.0	
480-181652-2	MW-C11 030321	Total/NA	Water	300.0	
480-181652-3	MW-45S 030321	Total/NA	Water	300.0	
480-181652-7	MW-C16 030321	Total/NA	Water	300.0	
480-181652-8	MW-24S 030321	Total/NA	Water	300.0	
480-181652-9	MW-28S 030321	Total/NA	Water	300.0	
480-181652-10	MW-48S 030321	Total/NA	Water	300.0	
MB 480-571481/4	Method Blank	Total/NA	Water	300.0	
LCS 480-571481/3	Lab Control Sample	Total/NA	Water	300.0	
480-181652-9 MS	MW-28S 030321	Total/NA	Water	300.0	
480-181652-9 MSD	MW-28S 030321	Total/NA	Water	300.0	

Analysis Batch: 571542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	Nitrate by calc	
480-181708-2	MW-46S 030421	Total/NA	Water	Nitrate by calc	
480-181708-3	MW-22S 030421	Total/NA	Water	Nitrate by calc	
480-181708-4	MW-40 030421	Total/NA	Water	Nitrate by calc	
480-181708-5	MW-31S 030421	Total/NA	Water	Nitrate by calc	
480-181708-6	MW-47S 030421	Total/NA	Water	Nitrate by calc	
480-181708-7	MW-23S 030421	Total/NA	Water	Nitrate by calc	
480-181708-8	MW-33S 030421	Total/NA	Water	Nitrate by calc	

Analysis Batch: 571555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	9012B	571422
480-181652-2	MW-C11 030321	Total/NA	Water	9012B	571422
480-181652-3	MW-45S 030321	Total/NA	Water	9012B	571422
480-181652-4	DUP	Total/NA	Water	9012B	571422
480-181652-6	EQUIPMENT BLANK	Total/NA	Water	9012B	571422
480-181652-7	MW-C16 030321	Total/NA	Water	9012B	571422
480-181652-8	MW-24S 030321	Total/NA	Water	9012B	571422
480-181652-9	MW-28S 030321	Total/NA	Water	9012B	571422
480-181652-10	MW-48S 030321	Total/NA	Water	9012B	571422
MB 480-571422/1-A	Method Blank	Total/NA	Water	9012B	571422
LCS 480-571422/2-A	Lab Control Sample	Total/NA	Water	9012B	571422
480-181652-10 MS	MW-48S 030321	Total/NA	Water	9012B	571422
480-181652-10 MSD	MW-48S 030321	Total/NA	Water	9012B	571422

Analysis Batch: 571666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	300.0	
480-181708-2	MW-46S 030421	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 571666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-3	MW-22S 030421	Total/NA	Water	300.0	
480-181708-4	MW-40 030421	Total/NA	Water	300.0	
480-181708-5	MW-31S 030421	Total/NA	Water	300.0	
480-181708-6	MW-47S 030421	Total/NA	Water	300.0	
480-181708-7	MW-23S 030421	Total/NA	Water	300.0	
480-181708-8	MW-33S 030421	Total/NA	Water	300.0	
MB 480-571666/28	Method Blank	Total/NA	Water	300.0	
MB 480-571666/4	Method Blank	Total/NA	Water	300.0	
LCS 480-571666/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-571666/3	Lab Control Sample	Total/NA	Water	300.0	
480-181708-7 MS	MW-23S 030421	Total/NA	Water	300.0	

Analysis Batch: 571676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	350.1	
480-181708-2	MW-46S 030421	Total/NA	Water	350.1	
480-181708-3	MW-22S 030421	Total/NA	Water	350.1	
480-181708-4	MW-40 030421	Total/NA	Water	350.1	
480-181708-5	MW-31S 030421	Total/NA	Water	350.1	
480-181708-6	MW-47S 030421	Total/NA	Water	350.1	
480-181708-7	MW-23S 030421	Total/NA	Water	350.1	
480-181708-8	MW-33S 030421	Total/NA	Water	350.1	
MB 480-571676/27	Method Blank	Total/NA	Water	350.1	
MB 480-571676/51	Method Blank	Total/NA	Water	350.1	
LCS 480-571676/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-571676/52	Lab Control Sample	Total/NA	Water	350.1	
480-181708-1 MS	MW-25S 030421	Total/NA	Water	350.1	
480-181708-8 MS	MW-33S 030421	Total/NA	Water	350.1	
480-181708-8 DU	MW-33S 030421	Total/NA	Water	350.1	

Prep Batch: 571757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	9012B	
480-181708-2	MW-46S 030421	Total/NA	Water	9012B	
480-181708-4	MW-40 030421	Total/NA	Water	9012B	
480-181708-5	MW-31S 030421	Total/NA	Water	9012B	
480-181708-6	MW-47S 030421	Total/NA	Water	9012B	
480-181708-7	MW-23S 030421	Total/NA	Water	9012B	
480-181708-8	MW-33S 030421	Total/NA	Water	9012B	
MB 480-571757/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-571757/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-571757/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-181708-8 MS	MW-33S 030421	Total/NA	Water	9012B	

Analysis Batch: 571763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	SM 2320B	
480-181652-2	MW-C11 030321	Total/NA	Water	SM 2320B	
480-181652-3	MW-45S 030321	Total/NA	Water	SM 2320B	
480-181652-7	MW-C16 030321	Total/NA	Water	SM 2320B	
480-181652-8	MW-24S 030321	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 571763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-9	MW-28S 030321	Total/NA	Water	SM 2320B	
480-181652-10	MW-48S 030321	Total/NA	Water	SM 2320B	
480-181708-1	MW-25S 030421	Total/NA	Water	SM 2320B	
480-181708-2	MW-46S 030421	Total/NA	Water	SM 2320B	
MB 480-571763/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-571763/4	Method Blank	Total/NA	Water	SM 2320B	
MB 480-571763/76	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-571763/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-571763/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-571763/77	Lab Control Sample	Total/NA	Water	SM 2320B	
480-181652-7 MS	MW-C16 030321	Total/NA	Water	SM 2320B	
480-181652-3 DU	MW-45S 030321	Total/NA	Water	SM 2320B	

Analysis Batch: 571831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181652-1	MW-C12 030321	Total/NA	Water	SM 3500 FE D	
480-181652-2	MW-C11 030321	Total/NA	Water	SM 3500 FE D	
480-181652-3	MW-45S 030321	Total/NA	Water	SM 3500 FE D	
480-181652-7	MW-C16 030321	Total/NA	Water	SM 3500 FE D	
480-181652-8	MW-24S 030321	Total/NA	Water	SM 3500 FE D	
480-181652-9	MW-28S 030321	Total/NA	Water	SM 3500 FE D	
480-181652-10	MW-48S 030321	Total/NA	Water	SM 3500 FE D	
480-181708-1	MW-25S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-2	MW-46S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-3	MW-22S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-4	MW-40 030421	Total/NA	Water	SM 3500 FE D	
480-181708-5	MW-31S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-6	MW-47S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-7	MW-23S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-8	MW-33S 030421	Total/NA	Water	SM 3500 FE D	
MB 480-571831/27	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-571831/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-571831/28	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-571831/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-181652-2 MS	MW-C11 030321	Total/NA	Water	SM 3500 FE D	
480-181652-10 MS	MW-48S 030321	Total/NA	Water	SM 3500 FE D	
480-181708-6 MS	MW-47S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-8 MS	MW-33S 030421	Total/NA	Water	SM 3500 FE D	
480-181652-1 DU	MW-C12 030321	Total/NA	Water	SM 3500 FE D	
480-181652-2 DU	MW-C11 030321	Total/NA	Water	SM 3500 FE D	
480-181652-3 DU	MW-45S 030321	Total/NA	Water	SM 3500 FE D	
480-181652-7 DU	MW-C16 030321	Total/NA	Water	SM 3500 FE D	
480-181652-8 DU	MW-24S 030321	Total/NA	Water	SM 3500 FE D	
480-181652-9 DU	MW-28S 030321	Total/NA	Water	SM 3500 FE D	
480-181652-10 DU	MW-48S 030321	Total/NA	Water	SM 3500 FE D	
480-181708-1 DU	MW-25S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-2 DU	MW-46S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-3 DU	MW-22S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-4 DU	MW-40 030421	Total/NA	Water	SM 3500 FE D	
480-181708-5 DU	MW-31S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-6 DU	MW-47S 030421	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 571831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-7 DU	MW-23S 030421	Total/NA	Water	SM 3500 FE D	
480-181708-8 DU	MW-33S 030421	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 571900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-1	MW-25S 030421	Total/NA	Water	9012B	571757
480-181708-2	MW-46S 030421	Total/NA	Water	9012B	571757
480-181708-4	MW-40 030421	Total/NA	Water	9012B	571757
480-181708-5	MW-31S 030421	Total/NA	Water	9012B	571757
480-181708-6	MW-47S 030421	Total/NA	Water	9012B	571757
480-181708-7	MW-23S 030421	Total/NA	Water	9012B	571757
480-181708-8	MW-33S 030421	Total/NA	Water	9012B	571757
MB 480-571757/1-A	Method Blank	Total/NA	Water	9012B	571757
LCS 480-571757/2-A	Lab Control Sample	Total/NA	Water	9012B	571757
LCS 480-571757/3-A	Lab Control Sample	Total/NA	Water	9012B	571757
480-181708-8 MS	MW-33S 030421	Total/NA	Water	9012B	571757

Analysis Batch: 571987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-3	MW-22S 030421	Total/NA	Water	SM 2320B	
480-181708-4	MW-40 030421	Total/NA	Water	SM 2320B	
480-181708-5	MW-31S 030421	Total/NA	Water	SM 2320B	
480-181708-6	MW-47S 030421	Total/NA	Water	SM 2320B	
480-181708-7	MW-23S 030421	Total/NA	Water	SM 2320B	
480-181708-8	MW-33S 030421	Total/NA	Water	SM 2320B	
MB 480-571987/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-571987/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Prep Batch: 572059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-3	MW-22S 030421	Total/NA	Water	9012B	
MB 480-572059/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-572059/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-572059/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 572242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181708-3	MW-22S 030421	Total/NA	Water	9012B	572059
MB 480-572059/1-A	Method Blank	Total/NA	Water	9012B	572059
LCS 480-572059/2-A	Lab Control Sample	Total/NA	Water	9012B	572059
LCS 480-572059/3-A	Lab Control Sample	Total/NA	Water	9012B	572059

Lab Chronicle

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-C12 030321

Lab Sample ID: 480-181652-1

Date Collected: 03/03/21 09:10

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571455	03/05/21 12:03	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571516	03/05/21 18:22	PJQ	TAL BUF
Total/NA	Prep	3510C	DL		571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL	DL	20	571718	03/08/21 17:04	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763311	03/09/21 10:08	MME	TAL EDI
Total/NA	Analysis	RSK-175		11	571397	03/04/21 18:42	MAN	TAL BUF
Total/NA	Prep	3005A			571537	03/08/21 11:31	KMP	TAL BUF
Total/NA	Analysis	6010C		1	572132	03/10/21 18:09	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571481	03/05/21 12:18	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:31	CLT	TAL BUF
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:09	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571424	03/04/21 18:41	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/08/21 16:27	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-C11 030321

Lab Sample ID: 480-181652-2

Date Collected: 03/03/21 10:25

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	571455	03/05/21 12:27	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		20	571516	03/05/21 18:51	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763426	03/09/21 20:59	DAN	TAL EDI
Total/NA	Analysis	RSK-175		22	571397	03/04/21 16:49	MAN	TAL BUF
Total/NA	Prep	3005A			571537	03/08/21 11:31	KMP	TAL BUF
Total/NA	Analysis	6010C		1	572132	03/10/21 18:13	AMH	TAL BUF
Total/NA	Analysis	300.0		50	571481	03/05/21 12:33	IMZ	TAL BUF
Total/NA	Analysis	350.1		2	571438	03/05/21 07:25	CLT	TAL BUF
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:11	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571424	03/04/21 18:43	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/08/21 16:36	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Lab Chronicle

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-45S 030321
Date Collected: 03/03/21 13:40
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571455	03/05/21 12:52	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571516	03/05/21 19:19	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763311	03/09/21 10:29	MME	TAL EDI
Total/NA	Analysis	RSK-175		1	571397	03/04/21 17:08	MAN	TAL BUF
Total/NA	Prep	3005A			571537	03/08/21 11:31	KMP	TAL BUF
Total/NA	Analysis	6010C		1	572132	03/10/21 18:17	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571481	03/05/21 12:48	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:32	CLT	TAL BUF
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:12	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571424	03/04/21 20:02	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/08/21 17:05	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: DUP
Date Collected: 03/03/21 00:00
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	571455	03/05/21 13:17	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		20	571516	03/05/21 19:47	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763426	03/09/21 14:17	DAN	TAL EDI
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:16	ALT	TAL BUF

Client Sample ID: TRIP BLANK 030321
Date Collected: 03/03/21 00:00
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571455	03/05/21 13:42	CRL	TAL BUF

Client Sample ID: EQUIPMENT BLANK
Date Collected: 03/03/21 14:30
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571455	03/05/21 14:07	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571516	03/05/21 20:15	PJQ	TAL BUF

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-181652-6

Date Collected: 03/03/21 14:30

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763311	03/09/21 10:50	MME	TAL EDI
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:18	ALT	TAL BUF

Client Sample ID: MW-C16 030321

Lab Sample ID: 480-181652-7

Date Collected: 03/03/21 10:05

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	571455	03/05/21 14:31	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		20	571516	03/05/21 20:44	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763426	03/09/21 14:38	DAN	TAL EDI
Total/NA	Analysis	RSK-175		1	571397	03/04/21 19:01	MAN	TAL BUF
Total/NA	Prep	3005A			571537	03/08/21 11:31	KMP	TAL BUF
Total/NA	Analysis	6010C		1	572132	03/10/21 18:32	AMH	TAL BUF
Total/NA	Analysis	300.0		20	571481	03/05/21 13:02	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:33	CLT	TAL BUF
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:19	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571424	03/04/21 18:46	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/08/21 17:22	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-24S 030321

Lab Sample ID: 480-181652-8

Date Collected: 03/03/21 11:20

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571455	03/05/21 14:56	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571516	03/05/21 21:13	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763426	03/09/21 14:59	DAN	TAL EDI
Total/NA	Analysis	RSK-175		1	571397	03/04/21 17:45	MAN	TAL BUF
Total/NA	Prep	3005A			571537	03/08/21 11:31	KMP	TAL BUF
Total/NA	Analysis	6010C		1	572132	03/10/21 18:36	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571481	03/05/21 13:17	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:34	CLT	TAL BUF
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:21	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571424	03/04/21 20:05	ALT	TAL BUF

Client Sample ID: MW-24S 030321

Lab Sample ID: 480-181652-8

Date Collected: 03/03/21 11:20

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	571763	03/08/21 17:38	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-28S 030321

Lab Sample ID: 480-181652-9

Date Collected: 03/03/21 12:45

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571455	03/05/21 15:21	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571516	03/05/21 21:42	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763426	03/09/21 20:38	DAN	TAL EDI
Total/NA	Analysis	RSK-175		22	571397	03/04/21 19:20	MAN	TAL BUF
Total/NA	Prep	3005A			571537	03/08/21 11:31	KMP	TAL BUF
Total/NA	Analysis	6010C		1	572132	03/10/21 18:40	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571481	03/05/21 13:31	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:37	CLT	TAL BUF
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:22	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571424	03/04/21 20:06	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/08/21 17:45	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-48S 030321

Lab Sample ID: 480-181652-10

Date Collected: 03/03/21 14:40

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	571455	03/05/21 15:45	CRL	TAL BUF
Total/NA	Prep	3510C			571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571516	03/05/21 17:54	PJQ	TAL BUF
Total/NA	Prep	3510C	DL		571395	03/04/21 14:56	ATG	TAL BUF
Total/NA	Analysis	8270D LL	DL	10	571718	03/08/21 16:36	PJQ	TAL BUF
Total/NA	Prep	3510C			763251	03/08/21 16:57	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763311	03/09/21 05:34	MME	TAL EDI
Total/NA	Analysis	RSK-175		11	571397	03/04/21 18:23	MAN	TAL BUF
Total/NA	Prep	3005A			571537	03/08/21 11:31	KMP	TAL BUF
Total/NA	Analysis	6010C		1	572132	03/10/21 18:43	AMH	TAL BUF
Total/NA	Analysis	300.0		10	571481	03/05/21 14:44	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:39	CLT	TAL BUF
Total/NA	Prep	9012B			571422	03/04/21 21:18	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571555	03/05/21 20:03	ALT	TAL BUF

Lab Chronicle

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-48S 030321

Lab Sample ID: 480-181652-10

Date Collected: 03/03/21 14:40

Matrix: Water

Date Received: 03/04/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Nitrate by calc		1	571424	03/04/21 18:49	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/08/21 17:52	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-25S 030421

Lab Sample ID: 480-181708-1

Date Collected: 03/04/21 08:00

Matrix: Water

Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571517	03/06/21 02:22	OMI	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571657	03/08/21 13:21	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763912	03/11/21 05:18	MME	TAL EDI
Total/NA	Analysis	RSK-175		1	572034	03/10/21 22:32	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 21:37	AMH	TAL BUF
Total/NA	Analysis	300.0		10	571666	03/08/21 16:07	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571676	03/08/21 09:47	CLT	TAL BUF
Total/NA	Prep	9012B			571757	03/08/21 22:08	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571900	03/09/21 19:55	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:41	CRK	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/09/21 00:06	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-46S 030421

Lab Sample ID: 480-181708-2

Date Collected: 03/04/21 09:35

Matrix: Water

Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	20	571566	03/06/21 15:32	RJF	TAL BUF
Total/NA	Analysis	8260C		10	571517	03/06/21 02:46	OMI	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		200	571657	03/08/21 17:13	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		5	763912	03/11/21 11:25	MME	TAL EDI
Total/NA	Analysis	RSK-175		88	572034	03/11/21 00:07	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 21:41	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571666	03/08/21 16:21	IMZ	TAL BUF
Total/NA	Analysis	350.1		5	571676	03/08/21 10:10	CLT	TAL BUF
Total/NA	Prep	9012B			571757	03/08/21 22:08	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571900	03/09/21 19:56	ALT	TAL BUF

Lab Chronicle

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-46S 030421
Date Collected: 03/04/21 09:35
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:42	CRK	TAL BUF
Total/NA	Analysis	SM 2320B		1	571763	03/09/21 00:13	DLG	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-22S 030421
Date Collected: 03/04/21 10:50
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571566	03/06/21 15:57	RJF	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571657	03/08/21 14:18	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763912	03/11/21 05:39	MME	TAL EDI
Total/NA	Analysis	RSK-175		1	572034	03/10/21 16:53	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 21:45	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571666	03/08/21 16:36	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571676	03/08/21 09:49	CLT	TAL BUF
Total/NA	Prep	9012B			572059	03/10/21 21:43	ALT	TAL BUF
Total/NA	Analysis	9012B		5	572242	03/11/21 18:39	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:43	CRK	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 16:17	KEB	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-40 030421
Date Collected: 03/04/21 12:00
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571517	03/06/21 03:34	OMI	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571657	03/08/21 14:47	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763912	03/11/21 06:01	MME	TAL EDI
Total/NA	Analysis	RSK-175		1	572034	03/10/21 17:12	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 22:15	AMH	TAL BUF
Total/NA	Analysis	300.0		1	571666	03/08/21 16:50	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571676	03/08/21 09:50	CLT	TAL BUF
Total/NA	Prep	9012B			571757	03/08/21 22:08	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571900	03/09/21 19:59	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:44	CRK	TAL BUF

Lab Chronicle

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: MW-40 030421

Lab Sample ID: 480-181708-4

Date Collected: 03/04/21 12:00
Matrix: Water
Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 16:23	KEB	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-31S 030421

Lab Sample ID: 480-181708-5

Date Collected: 03/04/21 08:40
Matrix: Water
Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571517	03/06/21 03:58	OMI	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571657	03/08/21 15:16	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763912	03/11/21 06:22	MME	TAL EDI
Total/NA	Analysis	RSK-175		1	572034	03/10/21 17:31	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 22:18	AMH	TAL BUF
Total/NA	Analysis	300.0		2	571666	03/08/21 17:05	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571676	03/08/21 09:51	CLT	TAL BUF
Total/NA	Prep	9012B			571757	03/08/21 22:08	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571900	03/09/21 20:01	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:47	CRK	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 16:32	KEB	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-47S 030421

Lab Sample ID: 480-181708-6

Date Collected: 03/04/21 10:00
Matrix: Water
Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571517	03/06/21 04:22	OMI	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		5	571657	03/08/21 15:45	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763912	03/11/21 06:43	MME	TAL EDI
Total/NA	Analysis	RSK-175		220	572179	03/11/21 13:39	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 22:22	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571666	03/08/21 17:20	IMZ	TAL BUF
Total/NA	Analysis	350.1		5	571676	03/08/21 10:11	CLT	TAL BUF
Total/NA	Prep	9012B			571757	03/08/21 22:08	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571900	03/09/21 20:02	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:50	CRK	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 16:39	KEB	TAL BUF

Client Sample ID: MW-47S 030421

Lab Sample ID: 480-181708-6

Date Collected: 03/04/21 10:00
Matrix: Water
Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-23S 030421

Lab Sample ID: 480-181708-7

Date Collected: 03/04/21 11:25
Matrix: Water
Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	571517	03/06/21 04:47	OMI	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		50	571657	03/08/21 16:15	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763912	03/11/21 07:04	MME	TAL EDI
Total/NA	Analysis	RSK-175		22	572179	03/11/21 13:58	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 22:26	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571666	03/08/21 17:34	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571676	03/08/21 09:53	CLT	TAL BUF
Total/NA	Prep	9012B			571757	03/08/21 22:08	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571900	03/09/21 20:04	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:51	CRK	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 16:45	KEB	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Client Sample ID: MW-33S 030421

Lab Sample ID: 480-181708-8

Date Collected: 03/04/21 12:50
Matrix: Water
Date Received: 03/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571517	03/06/21 05:11	OMI	TAL BUF
Total/NA	Prep	3510C			571538	03/05/21 15:01	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	571657	03/08/21 16:44	JMM	TAL BUF
Total/NA	Prep	3510C			763754	03/10/21 14:25	OXG	TAL EDI
Total/NA	Analysis	8270E SIM		1	763912	03/11/21 07:25	MME	TAL EDI
Total/NA	Analysis	RSK-175		1	572034	03/10/21 18:27	DSC	TAL BUF
Total/NA	Prep	3005A			571641	03/08/21 11:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571943	03/09/21 22:30	AMH	TAL BUF
Total/NA	Analysis	300.0		5	571666	03/08/21 19:02	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	571676	03/08/21 09:55	CLT	TAL BUF
Total/NA	Prep	9012B			571757	03/08/21 22:08	ALT	TAL BUF
Total/NA	Analysis	9012B		1	571900	03/09/21 20:05	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571542	03/05/21 13:52	CRK	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 17:04	KEB	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	571831	03/06/21 16:20	CSS	TAL BUF

Lab Chronicle

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Client Sample ID: TRIP BLANK 030421

Date Collected: 03/04/21 00:00
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	571517	03/06/21 05:35	OMI	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

Method Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181652-1	MW-C12 030321	Water	03/03/21 09:10	03/04/21 10:00	
480-181652-2	MW-C11 030321	Water	03/03/21 10:25	03/04/21 10:00	
480-181652-3	MW-45S 030321	Water	03/03/21 13:40	03/04/21 10:00	
480-181652-4	DUP	Water	03/03/21 00:00	03/04/21 10:00	
480-181652-5	TRIP BLANK 030321	Water	03/03/21 00:00	03/04/21 10:00	
480-181652-6	EQUIPMENT BLANK	Water	03/03/21 14:30	03/04/21 10:00	
480-181652-7	MW-C16 030321	Water	03/03/21 10:05	03/04/21 10:00	
480-181652-8	MW-24S 030321	Water	03/03/21 11:20	03/04/21 10:00	
480-181652-9	MW-28S 030321	Water	03/03/21 12:45	03/04/21 10:00	
480-181652-10	MW-48S 030321	Water	03/03/21 14:40	03/04/21 10:00	
480-181708-1	MW-25S 030421	Water	03/04/21 08:00	03/05/21 10:00	
480-181708-2	MW-46S 030421	Water	03/04/21 09:35	03/05/21 10:00	
480-181708-3	MW-22S 030421	Water	03/04/21 10:50	03/05/21 10:00	
480-181708-4	MW-40 030421	Water	03/04/21 12:00	03/05/21 10:00	
480-181708-5	MW-31S 030421	Water	03/04/21 08:40	03/05/21 10:00	
480-181708-6	MW-47S 030421	Water	03/04/21 10:00	03/05/21 10:00	
480-181708-7	MW-23S 030421	Water	03/04/21 11:25	03/05/21 10:00	
480-181708-8	MW-33S 030421	Water	03/04/21 12:50	03/05/21 10:00	
480-181708-9	TRIP BLANK 030421	Water	03/04/21 00:00	03/05/21 10:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse
#225

Client Information	Sampler: Jillian Kosinski / Pat M.	Lab PM: Schove, John R	Carrier Tracking No(s):
Client Contact: Mr. John Ruspantini	Phone: 716.390.0702	E-Mail: John.Schove@Eurofinset.com	State of Origin:
Company: New York State Electric & Gas	PWSID:		COC No: 480-157433-34652.1
Address: 18 Link Drive	Due Date Requested:		Page: Page 1 of 2
City: Binghamton	TAT Requested (days): Standard TAT		Job #:
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No		
Phone:	PO #: 60615225		
Email: jjruspantini@nyseg.com	WO #:		
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675		
Site: NYSEG - ITHACA	SSOW#:		

480-181652 Chain of Custody

Preservation Codes:
A - HCL
M - Hexane
NaO2
2O4S
2SO3
2S2O3
SO4
Dodecahydrate
tone
AA
4-5
EDA
Z - other (specify)
Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - SVOC SIM Analytes	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	300.0_28D - Sulfate	350.1 - Nitrogen, Ammonia	6010C - Metals - Iron	RSK_175 - Methane	Nitrate_Calc - Nitrate	2320B - Alkalinity	3500_FE_D - Iron, Ferrous	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	A	N	B	N	S	D	A	N	N	N		
MW-C12 030321	3/3/21 ~~0910~~	0910	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-C11 030321	3/3/21	1025	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-45S 030321	3/3/21	1340	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
DUP	–	–	G	Water			X	X	X	X								8	
TRIP BLANK 030321	3/3/21	–	–	Water				X										2	
Equipment Blank ~~030321~~	3/3/21	1430	G	Water			X	X	X	X								8	
MW-C16 030321	3/3/21	1005	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-24S 030321	3/3/21	1120	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-28S 030321	3/3/21	1245	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-48S 030321	3/3/21	1440	G	Water		Y	X	X	X	X	X	X	X	X	X	X	X	17	
MS	3/3/21	1440	G	Water			X	X	X	X								8	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B required

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jillian Kosinski	3/3/21 1525	AECOM	[signature]	3/3/21 1525	[illegible]
[signature]	3-3-21 1900	[illegible]	C. Wallace	3/4/21 1000	TA3

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.6, 2.3, 3.0, 2.7, 2.9, 2.4

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information	Sampler: Jillian K / Pat M	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-157433-34652.2
Client Contact: Mr. John Ruspantini	Phone: 716-390-0702	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: 18 Link Drive	Due Date Requested:			
City: Binghamton	TAT Requested (days): Standard TAT			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 60615225			
Email: jjruspantini@nyseg.com	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site: Ithaca NYSEG	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - SVOC SIM Analytes	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	300.0_28D - Sulfate	350.1 - Nitrogen, Ammonia	6010C - Metals - Iron	RSK_175 - Methane	Nitrate_Calc - Nitrate	2320B - Alkalinity	3500_FE_D - Iron, Ferrous	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	A	N	B	N	S	D	A	N	N	N		
MSD	3/3/21	1440	G	Water			X	X	X	X									
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B required

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by: Jillian Kozinski	Date/Time: 3/3/21 1525	Company AECOM	Received by:	Date/Time: 3/3/21 1525	Company ES-SYR
Relinquished by:	Date/Time: 3-3-21, 1900	Company	Received by:	Date/Time: 3/4/21 1000	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Syracuse #225

eurofins | Environment Testing America

Client Information	Sampler: Jillian Kosinski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-157433-34652.3
Client Contact: Mr. John Ruspantini	Phone: 716 390 0702	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: New York State Electric & Gas	PWSID:			Job #:
Address: 18 Link Drive	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Binghamton	TAT Requested (days): Standard			M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 60615225			
Email: jjruspantini@nyseg.com	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			K - EDTA L - EDA Other:
Site: Ithaca NYSEG	SSOW#:			

480-181708 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - SVOC SIM Analytes	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	300.0_28D - Sulfate	350.1 - Nitrogen, Ammonia	6010C - Metals - Iron	RSK_175 - Methane	Nitrate_Calc - Nitrate	2320B - Alkalinity	3500_FE_D - Iron, Ferrous	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	B	N	S	D	A	N	N	N		
MW-25S 030421	3/4/21	0800	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-46S 030421		0935	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-22S 030421		1050	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-40 030421		1200	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-31S 030421		0840	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-47S 030421		1000	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-23S 030421		1125	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
MW-33S 030421		1250	G	Water			X	X	X	X	X	X	X	X	X	X	X	17	
TRIP BLANK 030421	—	—	—	Water				X										2	
				Water															
3/4/21 AP				Water															

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B required

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jillian Kosinski	3/4/21 1610	AECOM		3/4/21 1610	ES-SYR
Relinquished by:	Date/Time: 3/4/21 1900	Company ES-SYR	Received by: Walker	Date/Time: 3/5/21 1000	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1, 2.8, 2.6, 2.4

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-62067.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-181652-1
Address: 777 New Durham Road, ,	Due Date Requested: 3/17/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI SVOC SIM Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-C12 030321 (480-181652-1)	3/3/21	09:10 Eastern		Water			X	2	
MW-C11 030321 (480-181652-2)	3/3/21	10:25 Eastern		Water			X	2	
MW-45S 030321 (480-181652-3)	3/3/21	13:40 Eastern		Water			X	2	
DUP (480-181652-4)	3/3/21	Eastern		Water			X	2	
EQUIPMENT BLANK (480-181652-6)	3/3/21	14:30 Eastern		Water			X	2	
MW-C16 030321 (480-181652-7)	3/3/21	10:05 Eastern		Water			X	2	
MW-24S 030321 (480-181652-8)	3/3/21	11:20 Eastern		Water			X	2	
MW-28S 030321 (480-181652-9)	3/3/21	12:45 Eastern		Water			X	2	
MW-48S 030321 (480-181652-10)	3/3/21	14:40 Eastern		Water			X	2	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable Rank: 2
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/4/21 1700	TA	[signature] via FedEx	3/5/21 1000	[signature]

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1426985 1426984	Cooler Temperature(s) °C and Other Remarks: 3.0°C 3.6°C

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-62067.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-181652-1
Address: 777 New Durham Road, ,	Due Date Requested: 3/17/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI SVOC SIM Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-48S 030321 (480-181652-10MS)	3/3/21	14:40 Eastern	MS	Water			X	2	
MW-48S 030321 (480-181652-10MSD)	3/3/21	14:40 Eastern	MSD	Water			X	2	

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification

Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable Rank: 2 | Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: PSI	Date/Time:	Company	Received by: aacierno via Fedex	Date/Time: 3/5/21 1000	Company: [illegible]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1426985 1426984		Cooler Temperature(s) °C and Other Remarks: 3.0C 3.6°C		

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-62096.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-181708-1
Address: 777 New Durham Road, ,	Due Date Requested: 3/18/2021	**Analysis Requested**		**Preservation Codes:**
City: Edison	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA; M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI SVOC SIM Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-25S 030421 (480-181708-1)	3/4/21	08:00 Eastern		Water			X	2	
MW-46S 030421 (480-181708-2)	3/4/21	09:35 Eastern		Water			X	2	
MW-22S 030421 (480-181708-3)	3/4/21	10:50 Eastern		Water			X	2	
MW-40 030421 (480-181708-4)	3/4/21	12:00 Eastern		Water			X	2	
MW-31S 030421 (480-181708-5)	3/4/21	08:40 Eastern		Water			X	2	
MW-47S 030421 (480-181708-6)	3/4/21	10:00 Eastern		Water			X	2	
MW-23S 030421 (480-181708-7)	3/4/21	11:25 Eastern		Water			X	2	
MW-33S 030421 (480-181708-8)	3/4/21	12:50 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable Rank: 2 | Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Chinyelow Orvolb	Date/Time: 3/8/21 1700	Company: TA	Received by: ——— via FedEx	Date/Time: 3/9/21 1000	Company: ETAEL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: X Yes Δ No	Custody Seal No.: 1426990		Cooler Temperature(s) °C and Other Remarks: 4.3°C IR11		

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181652
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181652
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 03/05/21 11:34 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1426985, 1426984
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0, 3.6°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181708
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181708
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 03/09/21 11:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1426990
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C Data Usability Summary Report

AECOM

Prepared for:
NYSEG
Binghamton, NY

Prepared by:
AECOM
Pittsburgh, PA
60615225.5
March 2021

March 18, 2021

Data Usability Summary Report

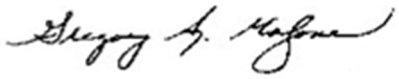
NYSEG/Ithaca Court Street Former MGP Site
Groundwater Sampling Event
Eurofins Environment Testing America
Laboratory Data
March 2021
Final

Prepared for:
NYSEG
Binghamton, NY

Prepared by:
AECOM
Pittsburgh, PA
60615225.5
March 2021

Data Usability Summary Report

NYSEG/Ithaca Court Street Former MGP Site
Groundwater Sampling Event
Eurofins Environment Testing America Laboratory Data
March 2021
Final



Prepared By
Gregory Malzone, Project Chemist
AECOM
Gulf Tower
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Pittsburgh, PA 15219

Reviewed By
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AECOM
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Atlanta, GA 30309

Contents

List of Appendices

Executive Summary

Overview

Data validation was performed by Gregory A. Malzone of AECOM-Pittsburgh on one data package comprised of two sample delivery groups (SDGs) from Eurofins Environment Testing America (EETA-Buffalo), 10 Hazelwood Drive, Amherst, NY 14228-2298 for the analysis of groundwater samples collected on March 3-4, 2021 at the NYSEG/Ithaca Court Street former manufactured gas plant (MGP) site.

The following analytical methods were requested on the chain-of-custody (CoC) records.

- Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) by USEPA SW-846 Method 8260C
- Polynuclear Aromatic Hydrocarbons (PAHs) by USEPA SW-846 Method 8270D Low-Level and in Selected Ion Monitoring (SIM) Mode
- Methane by USEPA Method RSK-175
- Total Iron by USEPA SW-846 Method 6010C

General Chemistry

- Total Cyanide by USEPA SW-846 Method 9012B
- Sulfate by USEPA MCAWW Method 300.0
- Ammonia by USEPA MCAWW Method 350.1
- Nitrate and Nitrite by MCAWW Method 353.2 (Nitrate by Calculation)
- Total Alkalinity by Standard Method 2320B
- Ferrous Iron by Standard Method 3500 FE D

The PAH determinations using GC/MS in SIM mode were performed at the EETA-Edison, NJ facility.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region 2 SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Superfund Methods Data Review*, EPA-540-R-2017-002, January 2017 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA-540-R-2017-001, January 2017, as they apply to the analytical methods employed.

Field duplicate relative percent difference (RPD) review and applicable control limits were taken from the *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, December 1996 and *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses*, June 1988.

The samples were processed, and the results were reported under two SDGs 480-181652-1 and 480-181708-1. Table 1 provides a sample submittal list with the field IDs cross-referenced with the ETAL-Buffalo IDs.

Table 1 - Sample Submittals – NYSEG/Ithaca Former MGP Groundwater

Field ID	Laboratory ID	QC	Matrix	Date Sampled
MW-C12-030321	480-181652-1		Groundwater	03/03/21 09:10
MW-C11-030321	480-181652-2		Groundwater	03/03/21 10:25
MW-45S-030321	480-181652-3		Groundwater	03/03/21 13:40
DUP	480-181652-4	MW-C11	Groundwater (QC)	03/03/21 00:00
TRIP BLANK-030321	480-181652-5	trip blank	Aqueous (QC)	03/03/21 00:00
EQUIPMENT BLANK	480-181652-6	rinsate blank	Aqueous (QC)	03/03/21 14:30
MW-C16-030321	480-181652-7		Groundwater	03/03/21 10:05
MW-24S-030321	480-181652-8		Groundwater	03/03/21 11:20
MW-28S-030321	480-181652-9		Groundwater	03/03/21 12:45
MW-48S-030321	480-181652-10	MS/MSD	Groundwater	03/03/21 14:40
MW-25S-030421	480-181708-1		Groundwater	03/04/21 08:00
MW-46S-030421	480-181708-2		Groundwater	03/04/21 09:35
MW-22S-030421	480-181708-3		Groundwater	03/04/21 10:50
MW-40-030421	480-181708-4		Groundwater	03/04/21 12:00
MW-31S-030421	480-181708-5		Groundwater	03/04/21 08:40
MW-47S-030421	480-181708-6		Groundwater	03/04/21 10:00
MW-23S-030421	480-181708-7		Groundwater	03/04/21 11:25
MW-33S-030421	480-181708-8		Groundwater	03/04/21 12:50
TRIP BLANK-030421	480-181708-9	trip blank	Aqueous (QC)	03/04/21 00:00

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, matrix spike/matrix spike duplicates (MS/MSD), surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

All data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., groundwater) with the qualifications described below. No data points were rejected. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria that required data qualification is discussed below. Support documentation for data qualifications was included in Appendix C of this report.

1.0 Benzene, Toluene, Ethylbenzene and Total Xylenes

Matrix Spike Recoveries: Sample MW-48S-030321 was designated in the field to be processed as a quality control sample, that is, as the MS/MSD. The MW-48S-030321 MS recovery for ethylbenzene was less than the lower advisory limit, but greater than 20%. The MW-48S-030321 MSD recovery for ethylbenzene and the RPD between the MS and MSD recoveries for ethylbenzene were within the advisory limits. No data qualification was required.

Reporting and Detection Limits: Samples MW-48S-030321, MW-46S-03042, and MW-23S-030421 required analysis at an initial dilution to bring the target compound concentration(s) into the calibration range. The initial dilution elevated the reporting limits (RLs) and method detection limits (MDLs). The surrogate recoveries were within the quality control limits. No data qualifications were required.

Samples MW-C11-030321, DUP, and MW-C16-030321 required analysis at an initial four-fold dilution to minimize the matrix interference that caused purge and trap foaming to occur. The initial dilution elevated the RLs and MDLs. The surrogate recoveries were within the quality control limits. No data qualifications were required.

2.0 Polynuclear Aromatic Hydrocarbons

Blank Contamination: Naphthalene was detected in the low-level method blank MB 480-571538/1-A at an estimated concentration of 0.0641 J µg/L. The naphthalene results for associated samples MW-22S-030421 and MW-25S-030421 were estimated to be less than the RL and were qualified "U," as undetected at the RL, because of laboratory contamination. The naphthalene results for associated samples MW-23S-030421, MW-31S-030421, MW-33S-030421, MW-40-030421, MW-46S-030421and MW-47S-030421 were non-detect or greater than five times the blank concentration and did not require qualification.

Calibrations: The continuing calibration verification (CCV) percent differences for benzo(k)fluoranthene were less than the lower method specification limit of -20% on 03/09/21 at 09:18 on instrument CBNAMS9 and on 03/10/21 at 23:48 on instrument CBNAMS4. The the positive and non-detect benzo(k)fluoranthene results for associated samples MW-C11-030321, DUP, MW-C16-030321, MW-24S-030321, MW-28S-030321, MW-25S-030421, MW-46S-030421, MW-22S-030421, MW-40-030421, MW-31S-030421, MW-47S-030421, MW-23S-030421, and MW-33S-030421 were qualified "J/UJ," as estimates, because of low instrument bias.

Matrix Spike Recoveries: Sample MW-48S-030321 was designated in the field to be processed as a quality control sample, that is, as the MS/MSD. The acenaphthene and naphthalene spike added to MW-48S-030321 MS/MSD was less than 25% of the original sample results. Advisory limits did not apply. No data qualification was required.

Reporting and Detection Limits: Low-level GC/MS sample MW-C12-030321 required analysis at a 20-fold secondary dilution to bring the acenaphthene and fluorene concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Low-level GC/MS sample MW-46S-030421 required analysis at a 200-fold initial dilution to bring the target compound concentration(s) into the calibration range. The RLs and MDLs were elevated as required. The diluted-out surrogates could not be used to evaluated method accuracy. There was enough, acceptable quality control data to show that the analytical process was in control. No data qualifications were required.

Low-level GC/MS sample MW-48S-030321 required analysis at a ten-fold secondary dilution to bring the acenaphthene and naphthalene concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Low-level GC/MS sample MW-23S required analysis at an initial 50-fold dilution to bring the target compound concentration(s) into the calibration range. The diluted-out surrogates could not be used to evaluated method accuracy. There was enough, acceptable quality control data to show that the analytical process was in control. No data qualifications were required.

Low-level GC/MS samples MW-47S, MW-C16, DUP, and MW-C11-030321 required analysis at an initial five-fold or greater dilution because of the nature of the sample extract (i.e. high viscosity). The surrogate recoveries were within the quality control limits. The RLs and MDLs were elevated as required. No data qualifications were required.

GC/MS SIM sample MW-46S-030421 required analysis at a five-fold initial dilution to bring the target compound concentration(s) into the calibration range. The surrogate recoveries were within the quality control limits. The RLs and MDLs were elevated as required. No data qualifications were required.

Surrogate Recoveries: The GC/MS low-level p-terphenyl-d14 surrogate recovery for sample MW-25S-030421 was less than the lower quality control limit, but greater than 10%. The *USEPA National Functional Guidelines* permit one surrogate per fraction (i.e., base/neutral, or organic acid) to be nonconforming, so long as the recovery was greater than 10%. No data qualification was required.

3.0 Methane

Dilutions: Samples MW-C12-030321, MW-C11-030321, MW-28S-030321, MW-48S-030321, MW-46S-030421, MW-47S-030421, and MW-23S-030421 required analysis at an initial dilution to bring the methane concentration into the calibration range. The initial dilution elevated the RLs and MDLs. No data qualifications were required.

Sample Preservation: The post-analysis pH measurement for sample MW-28S-030321 was greater than 2 SU. Sample was analyzed within the 7-day holding time specified for unpreserved samples. No data qualification was required.

4.0 Total Iron

No data quality issues were noted. No data qualifications were required.

5.0 General Chemistry

Holding Time: All ferrous iron samples were analyzed beyond the method holding time of 24 hours. Ferrous iron should be performed as a field test. The positive and non-detect ferrous iron results were qualified "J/UJ," as estimates, because the holding time was exceeded.

Matrix Spike Recoveries: Sample MW-48S-030321 was designated in the field to be processed as a quality control sample, that is, as the MS/Duplicate. The alkalinity spike added to MW-48S-030321 MS was less than 25% of the original sample result. Advisory limits did not apply. No data qualification was required.

The MW-25S-030421 MS recovery for ammonia was less than the lower advisory limit of 90%, at 86%. The ammonia result for sample MW-25S-030421 was non-detect and was qualified "UJ," as an estimate because of low method bias and/or matrix interference.

Sample MW-48S-030321 was not processed at the matrix spike sample for sulfate analysis. Samples MW-23S and MW-28S were spiked and the sulfate recoveries were within the advisory limits. No data qualifications were required.

6.0 Field Duplicate Precision

A field duplicate sample was collected at MW-C11-030321. The calculated RPDs and absolute differences are listed in Tables 2 below. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 30% for results greater than or equal to two times the reporting detection limit. If one of the results is non-detect or less than two times the reporting limit, and the duplicate is greater than two times the reporting detection limit, the difference between the parent and field duplicate results must be less than or equal to two times the reporting limit.

Inorganics: The RPD must be ≤ 30%, for results greater than or equal to five times the reporting limit. For results less than five times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to two times the reporting limit.

Action applies only to the affected analyte in the duplicate sample pair.

Field sampling/laboratory precision and sample homogeneity were acceptable; no data qualification was required.

Table 2 - Field Duplicate Precision - NYSEG/Ithaca Former MGP Groundwater

Parameter	Units	MW-C11		DUP		Abs. Diff.	RPD (%)	QUALs
Acenaphthene	µg/L	1.3	J	1.4	J	0.1	—	±2RL, None
Benzo[a]anthracene	µg/L	0.050	U	0.021	J	0.021	—	±2RL, None
Benzo[a]pyrene	µg/L	0.050	U	0.032	J	0.032	—	±2RL, None
Benzo[b]fluoranthene	µg/L	0.030	J	0.055		0.025	—	±2RL, None
Benzo[g,h,i]perylene	µg/L	0.050	U	0.044	J	0.044	—	±2RL, None
Indeno[1,2,3-cd]pyrene	µg/L	0.050	U	0.043	J	0.043	—	±2RL, None
Total Cyanide	mg/L	0.040		0.033		0.007	—	±2RL, None

RPD: Relative percent difference
Abs. Diff.: Absolute difference
QUALs: Qualifications
µg/L: micrograms per liter (ppb)
mg/L: milligrams per liter (ppm)

7.0 Notes

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Positive results less than the RL, but greater than the MDL were qualified "J," as estimated concentrations, due to increased uncertainty near the detection limit. These "J" qualifiers were maintained in the data validation. Sample results reported between the MDL and RL are usable as estimated values with an unknown directional bias.

Sample Custody: Sample identifications, sample dates, and sample times on the chain of custody matched those found in the laboratory data package. The chain of custody was signed and dated, and proper chain of command was followed from field to laboratory with the following exceptions.

- The chain of custody did not include a sample time for the trip blank associated with the 3/3/21 collection date. The laboratory logged in the trip blank sample with the shipment date indicated on the label and the sample time of "00:00" as they routinely do. The data reviewer manually edited the trip blank time to "00:00" on the chain of custody.
- The chain of custody did not include a sample date and time for the trip blank associated with the 3/4/21 collection date. The laboratory logged in the trip blank sample with the collection date indicated on the label and the sample time of "00:00" as they routinely do. The data reviewer manually edited the trip blank date and time to be "3/4/21" and "00:00" on the chain of custody.
- The chain of custody did not include a sample date and time for the field duplicate "DUP". The laboratory logged in the field duplicate sample with the collection date indicated on the label and the sample time of "00:00" as they routinely do. The data reviewer manually edited the field duplicate date and time to be "3/3/21" and "00:00" on the chain of custody.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
J+	The result is an estimated quantity but may be biased high.
J-	The result is an estimated quantity but may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.
N	(Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	(Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Sample Summary

Client: AECOM
Project/Site: Ithaca NYSEG

Job ID: 480-181652-1
SDG: 480-181652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181652-1	MW-C12 030321	Water	03/03/21 09:10	03/04/21 10:00	
480-181652-2	MW-C11 030321	Water	03/03/21 10:25	03/04/21 10:00	
480-181652-3	MW-45S 030321	Water	03/03/21 13:40	03/04/21 10:00	
480-181652-4	DUP	Water	03/03/21 00:00	03/04/21 10:00	
480-181652-5	TRIP BLANK 030321	Water	03/03/21 00:00	03/04/21 10:00	
480-181652-6	EQUIPMENT BLANK	Water	03/03/21 14:30	03/04/21 10:00	
480-181652-7	MW-C16 030321	Water	03/03/21 10:05	03/04/21 10:00	
480-181652-8	MW-24S 030321	Water	03/03/21 11:20	03/04/21 10:00	
480-181652-9	MW-28S 030321	Water	03/03/21 12:45	03/04/21 10:00	
480-181652-10	MW-48S 030321	Water	03/03/21 14:40	03/04/21 10:00	
480-181708-1	MW-25S 030421	Water	03/04/21 08:00	03/05/21 10:00	
480-181708-2	MW-46S 030421	Water	03/04/21 09:35	03/05/21 10:00	
480-181708-3	MW-22S 030421	Water	03/04/21 10:50	03/05/21 10:00	
480-181708-4	MW-40 030421	Water	03/04/21 12:00	03/05/21 10:00	
480-181708-5	MW-31S 030421	Water	03/04/21 08:40	03/05/21 10:00	
480-181708-6	MW-47S 030421	Water	03/04/21 10:00	03/05/21 10:00	
480-181708-7	MW-23S 030421	Water	03/04/21 11:25	03/05/21 10:00	
480-181708-8	MW-33S 030421	Water	03/04/21 12:50	03/05/21 10:00	
480-181708-9	TRIP BLANK 030421	Water	03/04/21 00:00	03/05/21 10:00	

Client Sample ID: MW-C12 030321

Date Collected: 03/03/21 09:10
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**16**		1.0	0.41	ug/L			03/05/21 12:03	1
Ethylbenzene	**31**		1.0	0.74	ug/L			03/05/21 12:03	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 12:03	1
Xylenes, Total	**1.9**	**J**	2.0	0.66	ug/L			03/05/21 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/05/21 12:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*03/05/21 12:03*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/05/21 12:03*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/05/21 12:03*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**100**	**E**	0.50	0.036	ug/L		03/04/21 14:56	03/05/21 18:22	1
Acenaphthylene	**1.4**		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 18:22	1
Anthracene	**0.23**	**J**	0.50	0.034	ug/L		03/04/21 14:56	03/05/21 18:22	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 18:22	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 18:22	1
Fluorene	**19**	**E**	0.50	0.058	ug/L		03/04/21 14:56	03/05/21 18:22	1
Naphthalene	**0.35**	**J**	1.0	0.064	ug/L		03/04/21 14:56	03/05/21 18:22	1
Phenanthrene	**2.3**		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 18:22	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*24 - 146*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
2-Fluorobiphenyl	*90*		*37 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
Nitrobenzene-d5 (Surr)	*87*		*26 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
Phenol-d5 (Surr)	*30*		*11 - 120*	*03/04/21 14:56*	*03/05/21 18:22*	*1*
p-Terphenyl-d14	*90*		*64 - 127*	*03/04/21 14:56*	*03/05/21 18:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**140**		10	0.72	ug/L		03/04/21 14:56	03/08/21 17:04	20
Acenaphthylene	**1.3**	**J**	6.0	1.1	ug/L		03/04/21 14:56	03/08/21 17:04	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/08/21 17:04	20
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/08/21 17:04	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/08/21 17:04	20
Fluorene	**18**		10	1.2	ug/L		03/04/21 14:56	03/08/21 17:04	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/08/21 17:04	20
Phenanthrene	**2.4**	**J**	4.0	1.2	ug/L		03/04/21 14:56	03/08/21 17:04	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/08/21 17:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*24 - 146*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
2-Fluorobiphenyl	*82*		*37 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
2-Fluorophenol (Surr)	*36*		*10 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
Nitrobenzene-d5 (Surr)	*105*		*26 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
Phenol-d5 (Surr)	*26*		*11 - 120*	*03/04/21 14:56*	*03/08/21 17:04*	*20*
p-Terphenyl-d14	*77*		*64 - 127*	*03/04/21 14:56*	*03/08/21 17:04*	*20*

Client Sample ID: MW-C12 030321

Lab Sample ID: 480-181652-1

Date Collected: 03/03/21 09:10

Matrix: Water

Date Received: 03/04/21 10:00

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 10:08	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 10:08	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 10:08	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77*		*54 - 134*	*03/08/21 16:57*	*03/09/21 10:08*	*1*
2-Fluorobiphenyl	*91*		*25 - 131*	*03/08/21 16:57*	*03/09/21 10:08*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**820**		44	11	ug/L			03/04/21 18:42	11

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.1**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**214**		10.0	1.7	mg/L			03/05/21 12:18	5
Ammonia	**1.5**		0.020	0.0090	mg/L			03/05/21 06:31	1
Cyanide, Total	**0.010**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:09	1
Nitrate as N	ND		0.050	0.020	mg/L			03/04/21 18:41	1
Alkalinity, Total	**538**		5.0	0.79	mg/L			03/08/21 16:27	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-C11 030321

Lab Sample ID: 480-181652-2

Date Collected: 03/03/21 10:25

Matrix: Water

Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			03/05/21 12:27	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/05/21 12:27	4
Toluene	ND		4.0	2.0	ug/L			03/05/21 12:27	4
Xylenes, Total	ND		8.0	2.6	ug/L			03/05/21 12:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/05/21 12:27*	*4*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*03/05/21 12:27*	*4*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/05/21 12:27*	*4*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/05/21 12:27*	*4*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.3**	**J**	10	0.72	ug/L		03/04/21 14:56	03/05/21 18:51	20
Acenaphthylene	ND		6.0	1.1	ug/L		03/04/21 14:56	03/05/21 18:51	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/05/21 18:51	20

Client Sample ID: MW-C11 030321

Date Collected: 03/03/21 10:25
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 18:51	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/05/21 18:51	20
Fluorene	ND		10	1.2	ug/L		03/04/21 14:56	03/05/21 18:51	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/05/21 18:51	20
Phenanthrene	ND		4.0	1.2	ug/L		03/04/21 14:56	03/05/21 18:51	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 18:51	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*24 - 146*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
2-Fluorobiphenyl	*91*		*37 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
2-Fluorophenol (Surr)	*42*		*10 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
Nitrobenzene-d5 (Surr)	*114*		*26 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
Phenol-d5 (Surr)	*29*		*11 - 120*	*03/04/21 14:56*	*03/05/21 18:51*	*20*
p-Terphenyl-d14	*91*		*64 - 127*	*03/04/21 14:56*	*03/05/21 18:51*	*20*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[b]fluoranthene	**0.030**	**J**	0.050	0.024	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 20:59	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/08/21 16:57	03/09/21 20:59	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 20:59	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*54 - 134*	*03/08/21 16:57*	*03/09/21 20:59*	*1*
2-Fluorobiphenyl	*64*		*25 - 131*	*03/08/21 16:57*	*03/09/21 20:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**460**		88	22	ug/L			03/04/21 16:49	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**13.6**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1880**		100	17.5	mg/L			03/05/21 12:33	50
Ammonia	**3.4**		0.040	0.018	mg/L			03/05/21 07:25	2
Cyanide, Total	**0.040**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:11	1
Nitrate as N	ND		0.050	0.020	mg/L			03/04/21 18:43	1
Alkalinity, Total	**700**		5.0	0.79	mg/L			03/08/21 16:36	1
Ferrous Iron	**0.17**	~~HF~~ J	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-45S 030321

Date Collected: 03/03/21 13:40
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 12:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 12:52	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 12:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/05/21 12:52*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 12:52*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*03/05/21 12:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/05/21 12:52*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 19:19	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 19:19	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 19:19	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 19:19	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 19:19	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 19:19	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 19:19	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 19:19	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 146*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
2-Fluorobiphenyl	*97*		*37 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
Nitrobenzene-d5 (Surr)	*92*		*26 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*03/04/21 14:56*	*03/05/21 19:19*	*1*
p-Terphenyl-d14	*95*		*64 - 127*	*03/04/21 14:56*	*03/05/21 19:19*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 10:29	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 10:29	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 10:29	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*54 - 134*	*03/08/21 16:57*	*03/09/21 10:29*	*1*
2-Fluorobiphenyl	*93*		*25 - 131*	*03/08/21 16:57*	*03/09/21 10:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**24**		4.0	1.0	ug/L			03/04/21 17:08	1

Client Sample ID: MW-45S 030321

Date Collected: 03/03/21 13:40
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-3

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.4**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**11.2**		10.0	1.7	mg/L			03/05/21 12:48	5
Ammonia	**0.44**		0.020	0.0090	mg/L			03/05/21 06:32	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:12	1
Nitrate as N	**0.055**		0.050	0.020	mg/L			03/04/21 20:02	1
Alkalinity, Total	**365**		5.0	0.79	mg/L			03/08/21 17:05	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: DUP

Date Collected: 03/03/21 00:00
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			03/05/21 13:17	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/05/21 13:17	4
Toluene	ND		4.0	2.0	ug/L			03/05/21 13:17	4
Xylenes, Total	ND		8.0	2.6	ug/L			03/05/21 13:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/05/21 13:17*	*4*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*03/05/21 13:17*	*4*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/05/21 13:17*	*4*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/05/21 13:17*	*4*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1.4**	**J**	10	0.72	ug/L		03/04/21 14:56	03/05/21 19:47	20
Acenaphthylene	ND		6.0	1.1	ug/L		03/04/21 14:56	03/05/21 19:47	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/05/21 19:47	20
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 19:47	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/05/21 19:47	20
Fluorene	ND		10	1.2	ug/L		03/04/21 14:56	03/05/21 19:47	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/05/21 19:47	20
Phenanthrene	ND		4.0	1.2	ug/L		03/04/21 14:56	03/05/21 19:47	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 19:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
2-Fluorobiphenyl	*87*		*37 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
Nitrobenzene-d5 (Surr)	*111*		*26 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
Phenol-d5 (Surr)	*29*		*11 - 120*	*03/04/21 14:56*	*03/05/21 19:47*	*20*
p-Terphenyl-d14	*84*		*64 - 127*	*03/04/21 14:56*	*03/05/21 19:47*	*20*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.021**	**J**	0.050	0.016	ug/L		03/08/21 16:57	03/09/21 14:17	1

Client Sample ID: DUP

Lab Sample ID: 480-181652-4

Date Collected: 03/03/21 00:00
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**0.032**	**J**	0.050	0.022	ug/L		03/08/21 16:57	03/09/21 14:17	1
Benzo[b]fluoranthene	**0.055**		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 14:17	1
Benzo[g,h,i]perylene	**0.044**	**J**	0.050	0.035	ug/L		03/08/21 16:57	03/09/21 14:17	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/08/21 16:57	03/09/21 14:17	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 14:17	1
Indeno[1,2,3-cd]pyrene	**0.043**	**J**	0.050	0.036	ug/L		03/08/21 16:57	03/09/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*76*		*54 - 134*	*03/08/21 16:57*	*03/09/21 14:17*	*1*
2-Fluorobiphenyl	*62*		*25 - 131*	*03/08/21 16:57*	*03/09/21 14:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.033**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:16	1

Client Sample ID: TRIP BLANK 030321

Lab Sample ID: 480-181652-5

Date Collected: 03/03/21 00:00
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 13:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 13:42	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 13:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*03/05/21 13:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 13:42*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*03/05/21 13:42*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/05/21 13:42*	*1*

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-181652-6

Date Collected: 03/03/21 14:30
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 14:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 14:07	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 14:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/05/21 14:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 14:07*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/05/21 14:07*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/05/21 14:07*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 20:15	1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-181652-6

Date Collected: 03/03/21 14:30

Matrix: Water

Date Received: 03/04/21 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 20:15	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 20:15	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 20:15	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 20:15	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 20:15	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 20:15	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 20:15	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
2-Fluorobiphenyl	*100*		*37 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
Nitrobenzene-d5 (Surr)	*95*		*26 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*03/04/21 14:56*	*03/05/21 20:15*	*1*
p-Terphenyl-d14	*117*		*64 - 127*	*03/04/21 14:56*	*03/05/21 20:15*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 10:50	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 10:50	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 10:50	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*54 - 134*	*03/08/21 16:57*	*03/09/21 10:50*	*1*
2-Fluorobiphenyl	*94*		*25 - 131*	*03/08/21 16:57*	*03/09/21 10:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:18	1

Client Sample ID: MW-C16 030321

Lab Sample ID: 480-181652-7

Date Collected: 03/03/21 10:05

Matrix: Water

Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			03/05/21 14:31	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/05/21 14:31	4
Toluene	ND		4.0	2.0	ug/L			03/05/21 14:31	4
Xylenes, Total	ND		8.0	2.6	ug/L			03/05/21 14:31	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/05/21 14:31*	*4*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*03/05/21 14:31*	*4*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/05/21 14:31*	*4*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/05/21 14:31*	*4*

Client Sample ID: MW-C16 030321

Date Collected: 03/03/21 10:05
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-7

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**15**		10	0.72	ug/L		03/04/21 14:56	03/05/21 20:44	20
Acenaphthylene	ND		6.0	1.1	ug/L		03/04/21 14:56	03/05/21 20:44	20
Anthracene	ND		10	0.68	ug/L		03/04/21 14:56	03/05/21 20:44	20
Chrysene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 20:44	20
Fluoranthene	ND		10	1.6	ug/L		03/04/21 14:56	03/05/21 20:44	20
Fluorene	**2.7**	**J**	10	1.2	ug/L		03/04/21 14:56	03/05/21 20:44	20
Naphthalene	ND		20	1.3	ug/L		03/04/21 14:56	03/05/21 20:44	20
Phenanthrene	ND		4.0	1.2	ug/L		03/04/21 14:56	03/05/21 20:44	20
Pyrene	ND		10	1.5	ug/L		03/04/21 14:56	03/05/21 20:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*24 - 146*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
2-Fluorobiphenyl	*94*		*37 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
2-Fluorophenol (Surr)	*42*		*10 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
Nitrobenzene-d5 (Surr)	*117*		*26 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
Phenol-d5 (Surr)	*29*		*11 - 120*	*03/04/21 14:56*	*03/05/21 20:44*	*20*
p-Terphenyl-d14	*97*		*64 - 127*	*03/04/21 14:56*	*03/05/21 20:44*	*20*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.024**	**J**	0.050	0.016	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[a]pyrene	**0.025**	**J**	0.050	0.022	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[b]fluoranthene	**0.035**	**J**	0.050	0.024	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 14:38	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/08/21 16:57	03/09/21 14:38	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 14:38	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*54 - 134*	*03/08/21 16:57*	*03/09/21 14:38*	*1*
2-Fluorobiphenyl	*65*		*25 - 131*	*03/08/21 16:57*	*03/09/21 14:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**11**		4.0	1.0	ug/L			03/04/21 19:01	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**25.8**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1470**		40.0	7.0	mg/L			03/05/21 13:02	20
Ammonia	**0.58**		0.020	0.0090	mg/L			03/05/21 06:33	1
Cyanide, Total	**0.010**		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:19	1
Nitrate as N	ND		0.050	0.020	mg/L			03/04/21 18:46	1
Alkalinity, Total	**615**		5.0	0.79	mg/L			03/08/21 17:22	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-24S 030321

Date Collected: 03/03/21 11:20
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 14:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 14:56	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 14:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*03/05/21 14:56*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*03/05/21 14:56*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/05/21 14:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/05/21 14:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 21:13	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 21:13	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 21:13	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 21:13	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 21:13	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 21:13	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 21:13	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 21:13	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
2-Fluorobiphenyl	*88*		*37 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
Phenol-d5 (Surr)	*30*		*11 - 120*	*03/04/21 14:56*	*03/05/21 21:13*	*1*
p-Terphenyl-d14	*105*		*64 - 127*	*03/04/21 14:56*	*03/05/21 21:13*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[a]pyrene	**0.024**	**J**	0.050	0.022	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 14:59	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/08/21 16:57	03/09/21 14:59	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 14:59	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85*		*54 - 134*	*03/08/21 16:57*	*03/09/21 14:59*	*1*
2-Fluorobiphenyl	*68*		*25 - 131*	*03/08/21 16:57*	*03/09/21 14:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/04/21 17:45	1

Client Sample ID: MW-24S 030321

Lab Sample ID: 480-181652-8

Date Collected: 03/03/21 11:20
Matrix: Water
Date Received: 03/04/21 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.8**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**39.6**		10.0	1.7	mg/L			03/05/21 13:17	5
Ammonia	ND		0.020	0.0090	mg/L			03/05/21 06:34	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:21	1
Nitrate as N	**1.8**		0.050	0.020	mg/L			03/04/21 20:05	1
Alkalinity, Total	**317**		5.0	0.79	mg/L			03/08/21 17:38	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-28S 030321

Lab Sample ID: 480-181652-9

Date Collected: 03/03/21 12:45
Matrix: Water
Date Received: 03/04/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/05/21 15:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/05/21 15:21	1
Toluene	ND		1.0	0.51	ug/L			03/05/21 15:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/05/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*03/05/21 15:21*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/05/21 15:21*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*03/05/21 15:21*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/05/21 15:21*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/04/21 14:56	03/05/21 21:42	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 21:42	1
Anthracene	ND		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 21:42	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 21:42	1
Fluoranthene	ND		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 21:42	1
Fluorene	ND		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 21:42	1
Naphthalene	ND		1.0	0.064	ug/L		03/04/21 14:56	03/05/21 21:42	1
Phenanthrene	ND		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 21:42	1
Pyrene	ND		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 146*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
2-Fluorobiphenyl	*82*		*37 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
Phenol-d5 (Surr)	*27*		*11 - 120*	*03/04/21 14:56*	*03/05/21 21:42*	*1*
p-Terphenyl-d14	*102*		*64 - 127*	*03/04/21 14:56*	*03/05/21 21:42*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/08/21 16:57	03/09/21 20:38	1

Client Sample ID: MW-28S 030321

Date Collected: 03/03/21 12:45
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-9
Matrix: Water

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 20:38	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 20:38	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 20:38	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/08/21 16:57	03/09/21 20:38	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 20:38	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*75*		*54 - 134*	*03/08/21 16:57*	*03/09/21 20:38*	*1*
2-Fluorobiphenyl	*60*		*25 - 131*	*03/08/21 16:57*	*03/09/21 20:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3900**		88	22	ug/L			03/04/21 19:20	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.5**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**14.4**		10.0	1.7	mg/L			03/05/21 13:31	5
Ammonia	**0.88**		0.020	0.0090	mg/L			03/05/21 06:37	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:22	1
Nitrate as N	**0.13**		0.050	0.020	mg/L			03/04/21 20:06	1
Alkalinity, Total	**260**		5.0	0.79	mg/L			03/08/21 17:45	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-48S 030321

Date Collected: 03/03/21 14:40
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**35**		2.0	0.82	ug/L			03/05/21 15:45	2
Ethylbenzene	**39**	~~F1~~	2.0	1.5	ug/L			03/05/21 15:45	2
Toluene	ND		2.0	1.0	ug/L			03/05/21 15:45	2
Xylenes, Total	**18**		4.0	1.3	ug/L			03/05/21 15:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/05/21 15:45*	*2*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/05/21 15:45*	*2*
Dibromofluoromethane (Surr)	*117*		*75 - 123*		*03/05/21 15:45*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/05/21 15:45*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
~~**Acenaphthene**~~	~~**36**~~	~~**E**~~	~~0.50~~	~~0.036~~	~~ug/L~~		~~03/04/21 14:56~~	~~03/05/21 17:54~~	~~1~~
Acenaphthylene	**1.4**		0.30	0.056	ug/L		03/04/21 14:56	03/05/21 17:54	1
Anthracene	**1.4**		0.50	0.034	ug/L		03/04/21 14:56	03/05/21 17:54	1
Chrysene	ND		0.50	0.074	ug/L		03/04/21 14:56	03/05/21 17:54	1

Client Sample ID: MW-48S 030321

Date Collected: 03/03/21 14:40
Date Received: 03/04/21 10:00

Lab Sample ID: 480-181652-10

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.61		0.50	0.080	ug/L		03/04/21 14:56	03/05/21 17:54	1
Fluorene	4.0		0.50	0.058	ug/L		03/04/21 14:56	03/05/21 17:54	1
Naphthalene	41	E	1.0	0.064	ug/L		03/04/21 14:56	03/05/21 17:54	1
Phenanthrene	5.1		0.20	0.062	ug/L		03/04/21 14:56	03/05/21 17:54	1
Pyrene	0.76		0.50	0.076	ug/L		03/04/21 14:56	03/05/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*24 - 146*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
2-Fluorobiphenyl	*98*		*37 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
Nitrobenzene-d5 (Surr)	*91*		*26 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
Phenol-d5 (Surr)	*34*		*11 - 120*	*03/04/21 14:56*	*03/05/21 17:54*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*03/04/21 14:56*	*03/05/21 17:54*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33		5.0	0.36	ug/L		03/04/21 14:56	03/08/21 16:36	10
Acenaphthylene	1.2	J	3.0	0.56	ug/L		03/04/21 14:56	03/08/21 16:36	10
Anthracene	1.2	J	5.0	0.34	ug/L		03/04/21 14:56	03/08/21 16:36	10
Chrysene	ND		5.0	0.74	ug/L		03/04/21 14:56	03/08/21 16:36	10
Fluoranthene	ND		5.0	0.80	ug/L		03/04/21 14:56	03/08/21 16:36	10
Fluorene	3.5	J	5.0	0.58	ug/L		03/04/21 14:56	03/08/21 16:36	10
Naphthalene	44		10	0.64	ug/L		03/04/21 14:56	03/08/21 16:36	10
Phenanthrene	4.5		2.0	0.62	ug/L		03/04/21 14:56	03/08/21 16:36	10
Pyrene	ND		5.0	0.76	ug/L		03/04/21 14:56	03/08/21 16:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*24 - 146*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
2-Fluorobiphenyl	*90*		*37 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
Phenol-d5 (Surr)	*27*		*11 - 120*	*03/04/21 14:56*	*03/08/21 16:36*	*10*
p-Terphenyl-d14	*84*		*64 - 127*	*03/04/21 14:56*	*03/08/21 16:36*	*10*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.043	J	0.050	0.016	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/08/21 16:57	03/09/21 05:34	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		03/08/21 16:57	03/09/21 05:34	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/08/21 16:57	03/09/21 05:34	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/08/21 16:57	03/09/21 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*54 - 134*	*03/08/21 16:57*	*03/09/21 05:34*	*1*
2-Fluorobiphenyl	*82*		*25 - 131*	*03/08/21 16:57*	*03/09/21 05:34*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	3100		44	11	ug/L			03/04/21 18:23	11

Client Sample ID: MW-48S 030321

Lab Sample ID: 480-181652-10

Date Collected: 03/03/21 14:40
Matrix: Water
Date Received: 03/04/21 10:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.4**		0.050	0.019	mg/L		03/08/21 11:31	03/10/21 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**12.1**	**J**	20.0	3.5	mg/L			03/05/21 14:44	10
Ammonia	**1.4**		0.020	0.0090	mg/L			03/05/21 06:39	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/04/21 21:18	03/05/21 20:03	1
Nitrate as N	**0.036**	**J**	0.050	0.020	mg/L			03/04/21 18:49	1
Alkalinity, Total	**376**		5.0	0.79	mg/L			03/08/21 17:52	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-25S 030421

Lab Sample ID: 480-181708-1

Date Collected: 03/04/21 08:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 02:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 02:22	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 02:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/06/21 02:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/06/21 02:22*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/06/21 02:22*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/06/21 02:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 13:21	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 13:21	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 13:21	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 13:21	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 13:21	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 13:21	1
Naphthalene	~~**0.42**~~ ~~**J B**~~ 1.0 U		1.0	0.064	ug/L		03/05/21 15:01	03/08/21 13:21	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 13:21	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*24 - 146*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
2-Fluorobiphenyl	*90*		*37 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
Nitrobenzene-d5 (Surr)	*94*		*26 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
Phenol-d5 (Surr)	*35*		*11 - 120*	*03/05/21 15:01*	*03/08/21 13:21*	*1*
p-Terphenyl-d14	*54*	*S1-*	*64 - 127*	*03/05/21 15:01*	*03/08/21 13:21*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 05:18	1

Client Sample ID: MW-25S 030421

Date Collected: 03/04/21 08:00
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-1

Matrix: Water

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 05:18	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 05:18	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 05:18	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/10/21 14:25	03/11/21 05:18	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 05:18	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*25 - 131*	*03/10/21 14:25*	*03/11/21 05:18*	*1*
Nitrobenzene-d5	*77*		*54 - 134*	*03/10/21 14:25*	*03/11/21 05:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 22:32	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.5**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 21:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**206**		20.0	3.5	mg/L			03/08/21 16:07	10
Ammonia	ND	~~F1~~ UJ	0.020	0.0090	mg/L			03/08/21 09:47	1
Cyanide, Total	**0.026**		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 19:55	1
Nitrate as N	**0.12**		0.050	0.020	mg/L			03/05/21 13:41	1
Alkalinity, Total	**616**		5.0	0.79	mg/L			03/09/21 00:06	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-46S 030421

Date Collected: 03/04/21 09:35
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
~~**Benzene**~~	~~**1300**~~	~~**E**~~	~~10~~	~~4.1~~	~~ug/L~~			~~03/06/21 02:46~~	~~10~~
Ethylbenzene	**970**		10	7.4	ug/L			03/06/21 02:46	10
Toluene	**32**		10	5.1	ug/L			03/06/21 02:46	10
Xylenes, Total	**440**		20	6.6	ug/L			03/06/21 02:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*		*03/06/21 02:46*	*10*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/06/21 02:46*	*10*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*03/06/21 02:46*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/06/21 02:46*	*10*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1200**		20	8.2	ug/L			03/06/21 15:32	20
~~**Ethylbenzene**~~	~~**1100**~~		~~20~~	~~15~~	~~ug/L~~			~~03/06/21 15:32~~	~~20~~
~~**Toluene**~~	~~**35**~~		~~20~~	~~10~~	~~ug/L~~			~~03/06/21 15:32~~	~~20~~
~~**Xylenes, Total**~~	~~**510**~~		~~40~~	~~13~~	~~ug/L~~			~~03/06/21 15:32~~	~~20~~

Client Sample ID: MW-46S 030421

Date Collected: 03/04/21 09:35
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*03/06/21 15:32*	*20*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/06/21 15:32*	*20*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*03/06/21 15:32*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/06/21 15:32*	*20*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**89**	**J**	100	7.2	ug/L		03/05/21 15:01	03/08/21 17:13	200
Acenaphthylene	**12**	**J**	60	11	ug/L		03/05/21 15:01	03/08/21 17:13	200
Anthracene	**8.2**	**J**	100	6.8	ug/L		03/05/21 15:01	03/08/21 17:13	200
Chrysene	ND		100	15	ug/L		03/05/21 15:01	03/08/21 17:13	200
Fluoranthene	ND		100	16	ug/L		03/05/21 15:01	03/08/21 17:13	200
Fluorene	**20**	**J**	100	12	ug/L		03/05/21 15:01	03/08/21 17:13	200
Naphthalene	**2500**	**B**	200	13	ug/L		03/05/21 15:01	03/08/21 17:13	200
Phenanthrene	**14**	**J**	40	12	ug/L		03/05/21 15:01	03/08/21 17:13	200
Pyrene	**22**	**J**	100	15	ug/L		03/05/21 15:01	03/08/21 17:13	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*24 - 146*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
2-Fluorobiphenyl	*100*		*37 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
2-Fluorophenol (Surr)	*328*	*S1+*	*10 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
Nitrobenzene-d5 (Surr)	*84*		*26 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
Phenol-d5 (Surr)	*121*	*S1+*	*11 - 120*	*03/05/21 15:01*	*03/08/21 17:13*	*200*
p-Terphenyl-d14	*90*		*64 - 127*	*03/05/21 15:01*	*03/08/21 17:13*	*200*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**5.4**		0.25	0.078	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[a]pyrene	**6.1**		0.25	0.11	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[b]fluoranthene	**3.4**		0.25	0.12	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[g,h,i]perylene	**2.6**		0.25	0.18	ug/L		03/10/21 14:25	03/11/21 11:25	5
Benzo[k]fluoranthene	**1.8**	J	0.25	0.14	ug/L		03/10/21 14:25	03/11/21 11:25	5
Dibenz(a,h)anthracene	**0.95**		0.25	0.10	ug/L		03/10/21 14:25	03/11/21 11:25	5
Indeno[1,2,3-cd]pyrene	**2.7**		0.25	0.18	ug/L		03/10/21 14:25	03/11/21 11:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*25 - 131*	*03/10/21 14:25*	*03/11/21 11:25*	*5*
Nitrobenzene-d5	*69*		*54 - 134*	*03/10/21 14:25*	*03/11/21 11:25*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13000**		350	88	ug/L			03/11/21 00:07	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.7**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 21:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		10.0	1.7	mg/L			03/08/21 16:21	5
Ammonia	**5.0**		0.10	0.045	mg/L			03/08/21 10:10	5
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 19:56	1

Client Sample ID: MW-46S 030421

Lab Sample ID: 480-181708-2

Date Collected: 03/04/21 09:35
Matrix: Water
Date Received: 03/05/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	0.020	mg/L			03/05/21 13:42	1
Alkalinity, Total	**356**		5.0	0.79	mg/L			03/09/21 00:13	1
Ferrous Iron	**0.20**	~~HF~~ J	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-22S 030421

Lab Sample ID: 480-181708-3

Date Collected: 03/04/21 10:50
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 15:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 15:57	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 15:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*03/06/21 15:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/06/21 15:57*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*03/06/21 15:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/06/21 15:57*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 14:18	1
Acenaphthylene	**0.13**	**J**	0.30	0.056	ug/L		03/05/21 15:01	03/08/21 14:18	1
Anthracene	**0.052**	**J**	0.50	0.034	ug/L		03/05/21 15:01	03/08/21 14:18	1
Chrysene	**0.16**	**J**	0.50	0.074	ug/L		03/05/21 15:01	03/08/21 14:18	1
Fluoranthene	**0.19**	**J**	0.50	0.080	ug/L		03/05/21 15:01	03/08/21 14:18	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 14:18	1
Naphthalene	**~~0.32~~**	**~~J B~~** 1.0 U	1.0	0.064	ug/L		03/05/21 15:01	03/08/21 14:18	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 14:18	1
Pyrene	**0.29**	**J**	0.50	0.076	ug/L		03/05/21 15:01	03/08/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 146*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
2-Fluorobiphenyl	*93*		*37 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
Nitrobenzene-d5 (Surr)	*91*		*26 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
Phenol-d5 (Surr)	*30*		*11 - 120*	*03/05/21 15:01*	*03/08/21 14:18*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*03/05/21 15:01*	*03/08/21 14:18*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.046**	**J**	0.050	0.016	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[a]pyrene	**0.037**	**J**	0.050	0.022	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 05:39	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/10/21 14:25	03/11/21 05:39	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 05:39	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 05:39	1

Client Sample ID: MW-22S 030421

Date Collected: 03/04/21 10:50
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*25 - 131*	*03/10/21 14:25*	*03/11/21 05:39*	*1*
Nitrobenzene-d5	*85*		*54 - 134*	*03/10/21 14:25*	*03/11/21 05:39*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 16:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.73**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**58.3**		10.0	1.7	mg/L			03/08/21 16:36	5
Ammonia	ND		0.020	0.0090	mg/L			03/08/21 09:49	1
Cyanide, Total	**1.3**		0.050	0.025	mg/L		03/10/21 21:43	03/11/21 18:39	5
Nitrate as N	**18.8**		0.050	0.020	mg/L			03/05/21 13:43	1
Alkalinity, Total	**190**		5.0	0.79	mg/L			03/09/21 16:17	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-40 030421

Date Collected: 03/04/21 12:00
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 03:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 03:34	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 03:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/06/21 03:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*03/06/21 03:34*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*03/06/21 03:34*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/06/21 03:34*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 14:47	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 14:47	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 14:47	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 14:47	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 14:47	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 14:47	1
Naphthalene	ND		1.0	0.064	ug/L		03/05/21 15:01	03/08/21 14:47	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 14:47	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*24 - 146*	*03/05/21 15:01*	*03/08/21 14:47*	*1*
2-Fluorobiphenyl	*98*		*37 - 120*	*03/05/21 15:01*	*03/08/21 14:47*	*1*

Client Sample ID: MW-40 030421

Date Collected: 03/04/21 12:00
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/05/21 15:01*	*03/08/21 14:47*	*1*
Nitrobenzene-d5 (Surr)	*99*		*26 - 120*	*03/05/21 15:01*	*03/08/21 14:47*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*03/05/21 15:01*	*03/08/21 14:47*	*1*
p-Terphenyl-d14	*105*		*64 - 127*	*03/05/21 15:01*	*03/08/21 14:47*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 06:01	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/10/21 14:25	03/11/21 06:01	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 06:01	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*25 - 131*	*03/10/21 14:25*	*03/11/21 06:01*	*1*
Nitrobenzene-d5	*83*		*54 - 134*	*03/10/21 14:25*	*03/11/21 06:01*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5.5**		4.0	1.0	ug/L			03/10/21 17:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.5**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**13.9**		2.0	0.35	mg/L			03/08/21 16:50	1
Ammonia	**0.11**		0.020	0.0090	mg/L			03/08/21 09:50	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 19:59	1
Nitrate as N	**0.52**		0.050	0.020	mg/L			03/05/21 13:44	1
Alkalinity, Total	**147**		5.0	0.79	mg/L			03/09/21 16:23	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-31S 030421

Date Collected: 03/04/21 08:40
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 03:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 03:58	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 03:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*03/06/21 03:58*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/06/21 03:58*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*03/06/21 03:58*	*1*

Client Sample ID: MW-31S 030421

Date Collected: 03/04/21 08:40
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/06/21 03:58*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 15:16	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 15:16	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 15:16	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 15:16	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 15:16	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 15:16	1
Naphthalene	ND		1.0	0.064	ug/L		03/05/21 15:01	03/08/21 15:16	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 15:16	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*24 - 146*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
2-Fluorobiphenyl	*99*		*37 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
Nitrobenzene-d5 (Surr)	*102*		*26 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
Phenol-d5 (Surr)	*34*		*11 - 120*	*03/05/21 15:01*	*03/08/21 15:16*	*1*
p-Terphenyl-d14	*109*		*64 - 127*	*03/05/21 15:01*	*03/08/21 15:16*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 06:22	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/10/21 14:25	03/11/21 06:22	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 06:22	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*25 - 131*	*03/10/21 14:25*	*03/11/21 06:22*	*1*
Nitrobenzene-d5	*83*		*54 - 134*	*03/10/21 14:25*	*03/11/21 06:22*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**36**		4.0	1.0	ug/L			03/10/21 17:31	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.39**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**16.3**		4.0	0.70	mg/L			03/08/21 17:05	2
Ammonia	**0.051**		0.020	0.0090	mg/L			03/08/21 09:51	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:01	1
Nitrate as N	**0.18**		0.050	0.020	mg/L			03/05/21 13:47	1
Alkalinity, Total	**258**		5.0	0.79	mg/L			03/09/21 16:32	1

Client Sample ID: MW-31S 030421

Lab Sample ID: 480-181708-5

Date Collected: 03/04/21 08:40
Matrix: Water
Date Received: 03/05/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-47S 030421

Lab Sample ID: 480-181708-6

Date Collected: 03/04/21 10:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 04:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 04:22	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 04:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/06/21 04:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/06/21 04:22*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/06/21 04:22*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/06/21 04:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.91**	**J**	2.5	0.18	ug/L		03/05/21 15:01	03/08/21 15:45	5
Acenaphthylene	ND		1.5	0.28	ug/L		03/05/21 15:01	03/08/21 15:45	5
Anthracene	ND		2.5	0.17	ug/L		03/05/21 15:01	03/08/21 15:45	5
Chrysene	ND		2.5	0.37	ug/L		03/05/21 15:01	03/08/21 15:45	5
Fluoranthene	ND		2.5	0.40	ug/L		03/05/21 15:01	03/08/21 15:45	5
Fluorene	ND		2.5	0.29	ug/L		03/05/21 15:01	03/08/21 15:45	5
Naphthalene	ND		5.0	0.32	ug/L		03/05/21 15:01	03/08/21 15:45	5
Phenanthrene	ND		1.0	0.31	ug/L		03/05/21 15:01	03/08/21 15:45	5
Pyrene	ND		2.5	0.38	ug/L		03/05/21 15:01	03/08/21 15:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
2-Fluorobiphenyl	*88*		*37 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
Phenol-d5 (Surr)	*27*		*11 - 120*	*03/05/21 15:01*	*03/08/21 15:45*	*5*
p-Terphenyl-d14	*83*		*64 - 127*	*03/05/21 15:01*	*03/08/21 15:45*	*5*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 06:43	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/10/21 14:25	03/11/21 06:43	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 06:43	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*25 - 131*	*03/10/21 14:25*	*03/11/21 06:43*	*1*

Client Sample ID: MW-47S 030421

Date Collected: 03/04/21 10:00
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-6

Matrix: Water

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*81*		*54 - 134*	*03/10/21 14:25*	*03/11/21 06:43*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**12000**		880	220	ug/L			03/11/21 13:39	220

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**14.8**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**7.5**	**J**	10.0	1.7	mg/L			03/08/21 17:20	5
Ammonia	**4.6**		0.10	0.045	mg/L			03/08/21 10:11	5
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:02	1
Nitrate as N	ND		0.050	0.020	mg/L			03/05/21 13:50	1
Alkalinity, Total	**292**		5.0	0.79	mg/L			03/09/21 16:39	1
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-23S 030421

Date Collected: 03/04/21 11:25
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.82	ug/L			03/06/21 04:47	2
Ethylbenzene	**26**		2.0	1.5	ug/L			03/06/21 04:47	2
Toluene	ND		2.0	1.0	ug/L			03/06/21 04:47	2
Xylenes, Total	**16**		4.0	1.3	ug/L			03/06/21 04:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*03/06/21 04:47*	*2*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/06/21 04:47*	*2*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/06/21 04:47*	*2*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/06/21 04:47*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**82**		25	1.8	ug/L		03/05/21 15:01	03/08/21 16:15	50
Acenaphthylene	ND		15	2.8	ug/L		03/05/21 15:01	03/08/21 16:15	50
Anthracene	**3.5**	**J**	25	1.7	ug/L		03/05/21 15:01	03/08/21 16:15	50
Chrysene	ND		25	3.7	ug/L		03/05/21 15:01	03/08/21 16:15	50
Fluoranthene	ND		25	4.0	ug/L		03/05/21 15:01	03/08/21 16:15	50
Fluorene	**17**	**J**	25	2.9	ug/L		03/05/21 15:01	03/08/21 16:15	50
Naphthalene	**230**	~~B~~	50	3.2	ug/L		03/05/21 15:01	03/08/21 16:15	50
Phenanthrene	**15**		10	3.1	ug/L		03/05/21 15:01	03/08/21 16:15	50
Pyrene	ND		25	3.8	ug/L		03/05/21 15:01	03/08/21 16:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
~~2,4,6-Tribromophenol (Surr)~~	*~~151~~*	*~~S1+~~*	*~~24 - 146~~*	*~~03/05/21 15:01~~*	*~~03/08/21 16:15~~*	*~~50~~*
2-Fluorobiphenyl	*97*		*37 - 120*	*03/05/21 15:01*	*03/08/21 16:15*	*50*

Client Sample ID: MW-23S 030421

Date Collected: 03/04/21 11:25
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-7

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	94		10 - 120	03/05/21 15:01	03/08/21 16:15	50
Nitrobenzene-d5 (Surr)	82		26 - 120	03/05/21 15:01	03/08/21 16:15	50
Phenol-d5 (Surr)	49		11 - 120	03/05/21 15:01	03/08/21 16:15	50
p-Terphenyl-d14	88		64 - 127	03/05/21 15:01	03/08/21 16:15	50

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 07:04	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/10/21 14:25	03/11/21 07:04	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 07:04	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		25 - 131	03/10/21 14:25	03/11/21 07:04	1
Nitrobenzene-d5	84		54 - 134	03/10/21 14:25	03/11/21 07:04	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2900**		88	22	ug/L			03/11/21 13:58	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.9**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5.8**	**J**	10.0	1.7	mg/L			03/08/21 17:34	5
Ammonia	**1.1**		0.020	0.0090	mg/L			03/08/21 09:53	1
Cyanide, Total	**0.0053**	**J**	0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:04	1
Nitrate as N	**0.33**		0.050	0.020	mg/L			03/05/21 13:51	1
Alkalinity, Total	**234**		5.0	0.79	mg/L			03/09/21 16:45	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: MW-33S 030421

Date Collected: 03/04/21 12:50
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 05:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 05:11	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 05:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		03/06/21 05:11	1
4-Bromofluorobenzene (Surr)	105		73 - 120		03/06/21 05:11	1
Dibromofluoromethane (Surr)	110		75 - 123		03/06/21 05:11	1

Client Sample ID: MW-33S 030421

Date Collected: 03/04/21 12:50
Date Received: 03/05/21 10:00

Lab Sample ID: 480-181708-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/06/21 05:11*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/05/21 15:01	03/08/21 16:44	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/05/21 15:01	03/08/21 16:44	1
Anthracene	ND		0.50	0.034	ug/L		03/05/21 15:01	03/08/21 16:44	1
Chrysene	ND		0.50	0.074	ug/L		03/05/21 15:01	03/08/21 16:44	1
Fluoranthene	ND		0.50	0.080	ug/L		03/05/21 15:01	03/08/21 16:44	1
Fluorene	ND		0.50	0.058	ug/L		03/05/21 15:01	03/08/21 16:44	1
Naphthalene	ND		1.0	0.064	ug/L		03/05/21 15:01	03/08/21 16:44	1
Phenanthrene	ND		0.20	0.062	ug/L		03/05/21 15:01	03/08/21 16:44	1
Pyrene	ND		0.50	0.076	ug/L		03/05/21 15:01	03/08/21 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*24 - 146*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
2-Fluorobiphenyl	*101*		*37 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
Nitrobenzene-d5 (Surr)	*101*		*26 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*03/05/21 15:01*	*03/08/21 16:44*	*1*
p-Terphenyl-d14	*111*		*64 - 127*	*03/05/21 15:01*	*03/08/21 16:44*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		03/10/21 14:25	03/11/21 07:25	1
Benzo[k]fluoranthene	ND	UJ	0.050	0.028	ug/L		03/10/21 14:25	03/11/21 07:25	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/10/21 14:25	03/11/21 07:25	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		03/10/21 14:25	03/11/21 07:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*25 - 131*	*03/10/21 14:25*	*03/11/21 07:25*	*1*
Nitrobenzene-d5	*82*		*54 - 134*	*03/10/21 14:25*	*03/11/21 07:25*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1.7**	**J**	4.0	1.0	ug/L			03/10/21 18:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.97**		0.050	0.019	mg/L		03/08/21 11:39	03/09/21 22:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**44.9**		10.0	1.7	mg/L			03/08/21 19:02	5
Ammonia	**0.090**		0.020	0.0090	mg/L			03/08/21 09:55	1
Cyanide, Total	ND		0.010	0.0050	mg/L		03/08/21 22:08	03/09/21 20:05	1
Nitrate as N	**0.22**		0.050	0.020	mg/L			03/05/21 13:52	1
Alkalinity, Total	**364**		5.0	0.79	mg/L			03/09/21 17:04	1

Client Sample ID: MW-33S 030421

Lab Sample ID: 480-181708-8

Date Collected: 03/04/21 12:50
Matrix: Water
Date Received: 03/05/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	~~HF~~ UJ	0.10	0.075	mg/L			03/06/21 16:20	1

Client Sample ID: TRIP BLANK 030421

Lab Sample ID: 480-181708-9

Date Collected: 03/04/21 00:00
Matrix: Water
Date Received: 03/05/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/06/21 05:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/06/21 05:35	1
Toluene	ND		1.0	0.51	ug/L			03/06/21 05:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/06/21 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/06/21 05:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*03/06/21 05:35*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*03/06/21 05:35*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/06/21 05:35*	*1*

Appendix C

Support Documentation

Job Narrative
480-181652-1

Comments
No additional comments.

Receipt
The samples were received on 3/4/2021 10:00 AM and 3/5/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 2.3º C, 2.4º C, 2.4º C, 2.6º C, 2.6º C, 2.7º C, 2.8º C, 2.9º C, 3.0º C and 3.1º C.

GC/MS VOA
Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-23S 030421 (480-181708-7), MW-48S 030321 (480-181652-10), MW-48S 030321 (480-181652-10[MS]) and MW-48S 030321 (480-181652-10[MSD]). . Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: MW-46S 030421 (480-181708-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-C11 030321 (480-181652-2), DUP (480-181652-4) and MW-C16 030321 (480-181652-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D LL: The following samples required a dilution due to the nature of the sample matrix: MW-C11 030321 (480-181652-2), DUP (480-181652-4) and MW-C16 030321 (480-181652-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-C12 030321 (480-181652-1), MW-48S 030321 (480-181652-10), MW-48S 030321 (480-181652-10[MS]) and MW-48S 030321 (480-181652-10[MSD]). Elevated reporting limits (RLs) are provided.

Method 8270D LL: The following sample required a dilution due to the abundance of target analytes: MW-C12 030321 (480-181652-1) and MW-23S 030421 (480-181708-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-46S 030421 (480-181708-2) and MW-23S 030421 (480-181708-7). Elevated reporting limits (RLs) are provided.

Method 8270D LL: The following sample was diluted due to color, appearance, and viscosity: MW-47S 030421 (480-181708-6). Elevated reporting limits (RL) are provided.

Method 8270D LL: The following sample was diluted due to the abundance of target analytes: MW-46S 030421 (480-181708-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-25S 030421 (480-181708-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-C12 030321 (480-181652-1), MW-C11 030321 (480-181652-2) and MW-C16 030321 (480-181652-7). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the abundance of non-target analytes: MW-45S 030321 (480-181652-3), MW-24S 030321 (480-181652-8), MW-28S 030321 (480-181652-9) and MW-48S 030321 (480-181652-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-C12 030321 (480-181652-1), MW-C11 030321 (480-181652-2), MW-28S 030321 (480-181652-9) and MW-48S 030321 (480-181652-10). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MW-28S 030321 (480-181652-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-C12 030321 (480-181652-1), MW-C11 030321 (480-181652-2), MW-45S 030321 (480-181652-3), MW-C16 030321 (480-181652-7), MW-24S 030321 (480-181652-8), MW-28S 030321 (480-181652-9), MW-48S 030321 (480-181652-10), MW-25S 030421 (480-181708-1), MW-46S 030421 (480-181708-2), MW-22S 030421 (480-181708-3), MW-40 030421 (480-181708-4), MW-31S 030421 (480-181708-5), MW-47S 030421 (480-181708-6), MW-23S 030421 (480-181708-7) and MW-33S 030421 (480-181708-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-181652-1

SDG No.: 480-181652-1

Lab Sample ID: CCVIS 460-763912/2 Calibration Date: 03/10/2021 23:48

Instrument ID: CBNAMS4 Calib Start Date: 10/30/2020 13:18

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 10/30/2020 15:52

Lab File ID: U697181.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6740	0.5487		163	200	-18.6	20.0
N-Nitrosodimethylamine	Ave	0.8010	0.6631		82.8	100	-17.2	20.0
Bis(2-chloroethyl)ether	Ave	1.325	1.169	0.7000	17.6	20.0	-11.8	20.0
Naphthalene	Ave	1.115	1.072	0.7000	19.2	20.0	-3.8	20.0
Acenaphthylene	Ave	1.950	1.924	0.9000	19.7	20.0	-1.3	20.0
Acenaphthene	Ave	1.344	1.243	0.9000	18.5	20.0	-7.5	20.0
Fluorene	Ave	1.420	1.345	0.9000	18.9	20.0	-5.3	20.0
4,6-Dinitro-2-methylphenol	Qua		0.0600	0.0100	150	200	-25.2*	20.0
Hexachlorobenzene	Ave	0.3715	0.3584	0.1000	19.3	20.0	-3.5	20.0
Pentachlorophenol	Qua		0.0824	0.0500	100	100	0.5	20.0
Phenanthrene	Ave	1.520	1.149	0.7000	15.1	20.0	-24.4*	20.0
Anthracene	Ave	1.127	0.9501	0.7000	16.9	20.0	-15.7	20.0
Fluoranthene	Ave	1.207	1.053	0.6000	17.4	20.0	-12.8	20.0
Pyrene	Ave	2.180	2.014	0.6000	18.5	20.0	-7.6	20.0
Benzo[a]anthracene	Ave	1.486	1.449	0.8000	19.5	20.0	-2.5	20.0
Chrysene	Ave	1.666	1.576	0.7000	18.9	20.0	-5.4	20.0
Benzo[b]fluoranthene	Ave	1.587	1.332		16.8	20.0	-16.0	20.0
Benzo[k]fluoranthene	Ave	1.747	1.309	0.7000	15.0	20.0	-25.1*	20.0
Benzo[a]pyrene	Ave	1.246	1.090	0.7000	17.5	20.0	-12.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.279	1.131	0.5000	17.7	20.0	-11.6	20.0
Dibenz(a,h)anthracene	Ave	1.196	1.186	0.4000	19.8	20.0	-0.8	20.0
Benzo[g,h,i]perylene	Ave	1.529	1.437	0.5000	18.8	20.0	-6.0	20.0
Nitrobenzene-d5	Ave	0.4686	0.4492		383	400	-4.1	20.0
2-Fluorobiphenyl	Ave	1.564	1.928		493	400	23.3*	20.0
2,4,6-Tribromophenol	Ave	0.2142	0.2352		439	400	9.8	20.0
Terphenyl-d14	Ave	1.006	1.057		420	400	5.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-181652-1

SDG No.: 480-181652-1

Lab Sample ID: CCVIS 460-763426/2 Calibration Date: 03/09/2021 09:18

Instrument ID: CBNAMS9 Calib Start Date: 10/20/2020 17:34

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 10/20/2020 19:20

Lab File ID: h263750.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin2		0.5737		218	200	8.8	20.0
N-Nitrosodimethylamine	Ave	0.6383	0.6385		100	100	0.0	20.0
Bis(2-chloroethyl)ether	Ave	1.155	1.039	0.7000	18.0	20.0	-10.0	20.0
Naphthalene	Ave	1.169	1.165	0.7000	19.9	20.0	-0.3	20.0
Acenaphthylene	Ave	2.486	2.707	0.9000	21.8	20.0	8.9	20.0
Acenaphthene	Ave	1.493	1.290	0.9000	17.3	20.0	-13.6	20.0
Fluorene	Ave	1.794	2.149	0.9000	24.0	20.0	19.8	20.0
4,6-Dinitro-2-methylphenol	Qua		0.1007	0.0100	227	200	13.3	20.0
Hexachlorobenzene	Ave	0.6841	0.5616	0.1000	16.4	20.0	-17.9	20.0
Pentachlorophenol	Qua		0.2604	0.0500	104	100	4.4	20.0
Phenanthrene	Ave	2.078	1.032	0.7000	9.93	20.0	-50.3*	20.0
Anthracene	Ave	1.248	1.280	0.7000	20.5	20.0	2.6	20.0
Fluoranthene	Ave	1.907	1.258	0.6000	13.2	20.0	-34.0*	20.0
Pyrene	Ave	2.492	2.051	0.6000	16.5	20.0	-17.7	20.0
Benzo[a]anthracene	Ave	1.813	1.725	0.8000	19.0	20.0	-4.8	20.0
Chrysene	Ave	1.981	1.772	0.7000	17.9	20.0	-10.5	20.0
Benzo[b]fluoranthene	Ave	1.892	1.639		17.3	20.0	-13.3	20.0
Benzo[k]fluoranthene	Ave	2.184	1.634	0.7000	15.0	20.0	-25.2*	20.0
Benzo[a]pyrene	Ave	1.505	1.317	0.7000	17.5	20.0	-12.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.695	1.698	0.5000	20.0	20.0	0.2	20.0
Dibenz(a,h)anthracene	Ave	1.643	1.649	0.4000	20.1	20.0	0.4	20.0
Benzo[g,h,i]perylene	Ave	1.892	1.778	0.5000	18.8	20.0	-6.0	20.0
Nitrobenzene-d5	Ave	0.4246	0.4006		377	400	-5.6	20.0
2-Fluorobiphenyl	Ave	2.576	2.355		366	400	-8.6	20.0
2,4,6-Tribromophenol	Ave	0.3920	0.4065		415	400	3.7	20.0
Terphenyl-d14	Ave	0.8972	0.9205		410	400	2.6	20.0

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181652-1

SDG No.: 480-181652-1

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
MW-C12 030321	480-181652-1	46	30	87	90	96	90
MW-C12 030321 DL	480-181652-1 DL	36	26	105	82	90	77
MW-C11 030321	480-181652-2	42	29	114	91	97	91
MW-45S 030321	480-181652-3	50	32	92	97	94	95
DUP	480-181652-4	43	29	111	87	91	84
EQUIPMENT BLANK	480-181652-6	49	33	95	100	91	117
MW-C16 030321	480-181652-7	42	29	117	94	101	97
MW-24S 030321	480-181652-8	46	30	85	88	91	105
MW-28S 030321	480-181652-9	42	27	80	82	82	102
MW-48S 030321	480-181652-10	52	34	91	98	103	97
MW-48S 030321 DL	480-181652-10 DL	43	27	97	90	86	84
MW-25S 030421	480-181708-1	50	35	94	90	93	54 S1-
MW-46S 030421	480-181708-2	328 S1+	121 S1+	84	100	0 S1-	90
MW-22S 030421	480-181708-3	47	30	91	93	94	97
MW-40 030421	480-181708-4	50	32	99	98	100	105
MW-31S 030421	480-181708-5	53	34	102	99	100	109
MW-47S 030421	480-181708-6	43	27	83	88	91	83
MW-23S 030421	480-181708-7	94	49	82	97	151 S1+	88
MW-33S 030421	480-181708-8	50	33	101	101	102	111
	MB 480-571395/1-A	57	38	100	101	91	115
	MB 480-571538/1-A	53	35	96	92	85	104
	LCS 480-571395/2-A	55	37	104	96	93	107
	LCS 480-571538/2-A	57	40	105	103	105	109
	LCSD 480-571538/3-A	55	39	103	101	104	108
MW-48S 030321 MS	480-181652-10 MS	55	36	106	102	110	98
MW-48S 030321 MS DL	480-181652-10 MS DL	46	33	106	92	102	79
MW-48S 030321 MSD	480-181652-10 MSD	51	33	96	94	98	91
MW-48S 030321 MSD DL	480-181652-10 MSD DL	45	30	101	90	88	79

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	11-120
NBZ = Nitrobenzene-d5 (Surr)	26-120
FBP = 2-Fluorobiphenyl	37-120
TBP = 2,4,6-Tribromophenol (Surr)	24-146
TPHd14 = p-Terphenyl-d14	64-127

Column to be used to flag recovery values

FORM II 8270D LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181652-1

SDG No.: 480-181652-1

Client Sample ID: Lab Sample ID: MB 480-571538/1-A

Matrix: Water Lab File ID: Y02820477.D

Analysis Method: 8270D LL Date Collected:

Extract. Method: 3510C Date Extracted: 03/05/2021 15:01

Sample wt/vol: 1000(mL) Date Analyzed: 03/08/2021 11:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 571657 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.036
208-96-8	Acenaphthylene	ND		0.30	0.056
120-12-7	Anthracene	ND		0.50	0.034
218-01-9	Chrysene	ND		0.50	0.074
206-44-0	Fluoranthene	ND		0.50	0.080
86-73-7	Fluorene	ND		0.50	0.058
91-20-3	Naphthalene	0.0641	J	1.0	0.064
85-01-8	Phenanthrene	ND		0.20	0.062
129-00-0	Pyrene	ND		0.50	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	85		24-146
321-60-8	2-Fluorobiphenyl	92		37-120
367-12-4	2-Fluorophenol (Surr)	53		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	96		26-120
4165-62-2	Phenol-d5 (Surr)	35		11-120
1718-51-0	p-Terphenyl-d14	104		64-127

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181652-1

SDG No.: 480-181652-1

Matrix: Water Level: Low Lab File ID: W10012740.d

Lab ID: 480-181652-10 MS Client ID: MW-48S 030321 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	8.00	36	47.3	137	35-125	E 4
Acenaphthylene	8.00	1.4	10.1	109	43-141	
Anthracene	8.00	1.4	10.7	116	65-123	
Chrysene	8.00	ND	8.89	111	66-144	
Fluoranthene	8.00	0.61	10.0	118	63-146	
Fluorene	8.00	4.0	12.7	108	54-137	
Naphthalene	8.00	41	52.7	153	25-138	E 4
Phenanthrene	8.00	5.1	15.0	123	60-143	
Pyrene	8.00	0.76	10.8	125	65-139	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181652-1

SDG No.: 480-181652-1

Matrix: Water Level: Low Lab File ID: W10012758.d

Lab ID: 480-181652-10 MS DL Client ID: MW-48S 030321 MS DL

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	8.00	33	44.9	143	35-125	4
Acenaphthylene	8.00	1.2 J	9.19	100	43-141	
Anthracene	8.00	1.2 J	9.72	106	65-123	
Chrysene	8.00	ND	7.76	97	66-144	
Fluoranthene	8.00	ND	8.87	111	63-146	
Fluorene	8.00	3.5 J	11.6	102	54-137	
Naphthalene	8.00	44	63.3	236	25-138	4
Phenanthrene	8.00	4.5	13.0	107	60-143	
Pyrene	8.00	ND	9.02	113	65-139	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181652-1

SDG No.: 480-181652-1

Matrix: Water Level: Low Lab File ID: W10012741.d

Lab ID: 480-181652-10 MSD Client ID: MW-48S 030321 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	8.00	44.4	101	6	24	35-125	E 4
Acenaphthylene	8.00	9.42	100	7	18	43-141	
Anthracene	8.00	9.79	105	9	15	65-123	
Chrysene	8.00	8.07	101	10	15	66-144	
Fluoranthene	8.00	9.06	106	10	15	63-146	
Fluorene	8.00	11.8	98	7	15	54-137	
Naphthalene	8.00	54.1	170	3	29	25-138	E 4
Phenanthrene	8.00	13.7	107	9	15	60-143	
Pyrene	8.00	9.60	111	12	19	65-139	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181652-1

SDG No.: 480-181652-1

Matrix: Water Level: Low Lab File ID: W10012759.d

Lab ID: 480-181652-10 MSD DL Client ID: MW-48S 030321 MSD DL

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	8.00	44.4	136	1	24	35-125	4
Acenaphthylene	8.00	8.78	95	5	18	43-141	
Anthracene	8.00	10.0	110	3	15	65-123	
Chrysene	8.00	7.54	94	3	15	66-144	
Fluoranthene	8.00	9.06	113	2	15	63-146	
Fluorene	8.00	11.3	98	3	15	54-137	
Naphthalene	8.00	68.7	303	8	29	25-138	4
Phenanthrene	8.00	13.2	109	1	15	60-143	
Pyrene	8.00	8.60	108	5	19	65-139	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181652-1

SDG No.: 480-181652-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 571481 Date: 03/05/2021 13:46											
300.0	480-181652-9	Sulfate	14.4		mg/L						
300.0 MS	480-181652-9	Sulfate	271.1		mg/L	250	103	80-120			
Batch ID: 571666 Date: 03/08/2021 17:49											
300.0	480-181708-7	Sulfate	5.8	J	mg/L						
300.0 MS	480-181708-7	Sulfate	257.4		mg/L	250	101	80-120			
Batch ID: 571438 Date: 03/05/2021 06:38											
350.1	480-181652-9	Ammonia	0.88		mg/L						
350.1 MS	480-181652-9	Ammonia	1.09		mg/L	0.200	107	90-110			4
Batch ID: 571676 Date: 03/08/2021 09:48											
350.1	480-181708-1	Ammonia	ND		mg/L						F1
350.1 MS	480-181708-1	Ammonia	0.172		mg/L	0.200	86	90-110			F1
Batch ID: 571676 Date: 03/08/2021 09:57											
350.1	480-181708-8	Ammonia	0.090		mg/L						
350.1 MS	480-181708-8	Ammonia	0.300		mg/L	0.200	105	90-110			
Batch ID: 571555 Date: 03/05/2021 20:05			Prep Batch: 571422		Date: 03/04/2021 21:18						
9012B	480-181652-10	Cyanide, Total	ND		mg/L						
9012B MS	480-181652-10	Cyanide, Total	0.101		mg/L	0.100	101	90-110			
Batch ID: 571900 Date: 03/09/2021 20:07			Prep Batch: 571757		Date: 03/08/2021 22:08						
9012B	480-181708-8	Cyanide, Total	ND		mg/L						
9012B MS	480-181708-8	Cyanide, Total	0.0933		mg/L	0.100	93	90-110			
Batch ID: 571763 Date: 03/08/2021 17:31											
SM 2320B	480-181652-7	Alkalinity, Total	615		mg/L						
SM 2320B MS	480-181652-7	Alkalinity, Total	648.6		mg/L	100	34	60-140			4
Batch ID: 571831 Date: 03/06/2021 16:20											
SM 3500 FE D	480-181652-2	Ferrous Iron	0.17		mg/L						HF
SM 3500 FE D MS	480-181652-2	Ferrous Iron	1.07		mg/L	1.00	89	70-130			
Batch ID: 571831 Date: 03/06/2021 16:20											
SM 3500 FE D	480-181652-10	Ferrous Iron	ND		mg/L						HF
SM 3500 FE D MS	480-181652-10	Ferrous Iron	1.02		mg/L	1.00	102	70-130			
Batch ID: 571831 Date: 03/06/2021 16:20											
SM 3500 FE D	480-181708-6	Ferrous Iron	ND		mg/L						HF
SM 3500 FE D MS	480-181708-6	Ferrous Iron	0.982		mg/L	1.00	98	70-130			
Batch ID: 571831 Date: 03/06/2021 16:20											
SM 3500 FE D	480-181708-8	Ferrous Iron	ND		mg/L						HF

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information

Client Contact: Mr. John Ruspantini
Company: New York State Electric & Gas
Address: 18 Link Drive
City: Binghamton
State, Zip: NY, 13902
Phone:
Email: jjruspantini@nyseg.com
Project Name: NYSEG - Former MGP Site - Ithaca, NY
Site: NYSEG - ITHACA

Sampler: Jillian Kosinski / Pat M.
Phone: 716.390.0702
PWSID:

Lab PM: Schove, John R
E-Mail: John.Schove@Eurofinset.com
State of Origin:

Due Date Requested:
TAT Requested (days): Standard TAT
Compliance Project: Δ Yes Δ No
PO #: 60615225
WO #:
Project #: 48022675
SSOW#:

COC No: 480-157433-34652.1
Page: Page 1 of 2
Job #:

480-181652 Chain of Custody

Analysis Requested

Preservation Codes:
A - HCL
M - Hexane
NaO2
2O4S
2SO3
2S2O3
3O4
Dodecahydrate
tone
AA
4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - SVOC SIM Analytes	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	300.0_28D - Sulfate	350.1 - Nitrogen, Ammonia	6010C - Metals - Iron	RSK_175 - Methane	Nitrate_Calc - Nitrate	2320B - Alkalinity	3500_FE_D - Iron, Ferrou	Total Number of contai	Special Instructions/Note:
			Preservation Code:				N	A	N	B	N	S	D	A	N	N	N		
MW-C12 030321	3/3/21 ~~0910~~	0910	G	Water			X	X	X	X	X	X	X	X	X	X	X	12	
MW-C11 030321	3/3/21	1025	G	Water			X	X	X	X	X	X	X	X	X	X	X	12	
MW-45S 030321	3/3/21	1340	G	Water			X	X	X	X	X	X	X	X	X	X	X	12	
DUP	~~3/3/~~21	~~00:00~~	G	Water			X	X	X	X								8	
TRIP BLANK 030321	3/3/21	~~00:00~~	—	Water				X										2	
Equipment Blank ~~030332~~	3/3/21	1430	G	Water			X	X	X	X								8	
MW-C16 030321	3/3/21	1005	G	Water			X	X	X	X	X	X	X	X	X	X	X	12	
MW-24S 030321	3/3/21	1120	G	Water			X	X	X	X	X	X	X	X	X	X	X	12	
MW-28S 030321	3/3/21	1245	G	Water			X	X	X	X	X	X	X	X	X	X	X	12	
MW-48S 030321	3/3/21	1440	G	Water		Y	X	X	X	X	X	X	X	X	X	X	X	12	
MS	3/3/21	1440	G	Water			X	X	X	X								8	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify) Category B required

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Jillian Kosinski	3/3/21 1525	AECOM	Received by:	3/3/21 1525	~~AECOM~~
Relinquished by:	3-3-21, 1900	[illegible]	Received by:	3/4/21 1000	TMB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.6, 2.3, 3.0, 2.7
2.9, 2.4

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information	Sampler: Jillian K / Pat M	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-157433-34652.2
Client Contact: Mr. John Ruspantini	Phone: 716-390-0702	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: 18 Link Drive	Due Date Requested:			
City: Binghamton	TAT Requested (days): Standard TAT			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 60615225			
Email: jjruspantini@nyseg.com	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site: Ithaca NYSEG	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - SVOC SIM Analytes	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	300.0_28D - Sulfate	350.1 - Nitrogen, Ammonia	6010C - Metals - Iron	RSK_175 - Methane	Nitrate_Calc - Nitrate	2320B - Alkalinity	3500_FE_D - Iron, Ferrous			Total Number of containers	Special Instructions/Note:
Preservation Code:							N	A	N	B	N	S	D	A	N	N	N				
MSD	3/3/21	1440	G	Water			X	X	X	X										8	
				Water																	
				Water																	
				Water																	
				Water																	
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				Water																	
				Water																	
				Water																	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B required

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Jillian Kosinski	Date/Time: 3/3/21 1525	Company AECOM	Received by:	Date/Time: 3/3/21 1525	Company ES-SYR
Relinquished by:	Date/Time: 3-3-21 1900	Company	Received by:	Date/Time: 3/4/21 1000	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-62067.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-181652-1
Address: 777 New Durham Road, ,	Due Date Requested: 3/17/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI SVOC SIM Analytes	Total Number of containers	Special Instructions/Note:
				Preservation Code:					
MW-C12 030321 (480-181652-1)	3/3/21	09:10 Eastern		Water			X	2	
MW-C11 030321 (480-181652-2)	3/3/21	10:25 Eastern		Water			X	2	
MW-45S 030321 (480-181652-3)	3/3/21	13:40 Eastern		Water			X	2	
DUP (480-181652-4)	3/3/21	Eastern		Water			X	2	
EQUIPMENT BLANK (480-181652-6)	3/3/21	14:30 Eastern		Water			X	2	
MW-C16 030321 (480-181652-7)	3/3/21	10:05 Eastern		Water			X	2	
MW-24S 030321 (480-181652-8)	3/3/21	11:20 Eastern		Water			X	2	
MW-28S 030321 (480-181652-9)	3/3/21	12:45 Eastern		Water			X	2	
MW-48S 030321 (480-181652-10)	3/3/21	14:40 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible signature]	03/04/21 17:00	TA	[illegible signature] via FedEx	3/5/21 1000	[illegible]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1426985 1426984	Cooler Temperature(s) °C and Other Remarks: 3.0°C 3.6°C

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-62067.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-181652-1
Address: 777 New Durham Road, ,	Due Date Requested: 3/17/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI SVOC SIM Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-48S 030321 (480-181652-10MS)	3/3/21	14:40 Eastern	MS	Water			X	2	
MW-48S 030321 (480-181652-10MSD)	3/3/21	14:40 Eastern	MSD	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
PSI			Jacierno via Fedex	3/5/21 1000	Madison
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	1426985 1426984	3.0C 3.6C

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Syracuse #225

eurofins | Environment Testing America

Client Information	Sampler: Jillian Kosinski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-157433-34652.3
Client Contact: Mr. John Ruspantini	Phone: 7163900702	E-Mail: John.Schove@Eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: New York State Electric & Gas	PWSID:			Job #:
Address: 18 Link Drive	Due Date Requested:			
City: Binghamton	TAT Requested (days): Standard			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 60615225			
Email: jjruspantini@nyseg.com	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site: Ithaca NYSEG	SSOW#:			

Analysis Requested

480-181708 Chain of Custody

Preservation Codes:
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
K - EDTA
L - EDA
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - SVOC SIM Analytes	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	300.0_28D - Sulfate	350.1 - Nitrogen, Ammonia	6010C - Metals - Iron	RSK_175 - Methane	Nitrate_Calc - Nitrate	2320B - Alkalinity	3500_FE_D - Iron, Ferrous	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	B	N	S	D	A	N	N	N		
MW-25S 030421	3/4/21	0800	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
MW-46S 030421		0935	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
MW-22S 030421		1050	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
MW-40 030421		1200	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
MW-31S 030421		0840	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
MW-47S 030421		1000	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
MW-23S 030421		1125	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
MW-33S 030421		1250	G	Water			X	X	X	X	X	X	X	X	X	X	X		17
TRIP BLANK 030421	3/4/21	~~00:00~~	—	Water				X											2
				Water															
				Water															
				Water															

AP 3/4/21

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B required

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jillian Kosinski	3/4/21 1610	AECOM		3/4/21 1610	ES-SYR
2		3/4/21 1900	ES-SYR		3/5/21 1000	TAB
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.1, 2.8, 2.6, 2.4

Ver: 11/01/2020

03/16/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-62096.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-181708-1
Address: 777 New Durham Road, ,	Due Date Requested: 3/18/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI SVOC SIM Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-25S 030421 (480-181708-1)	3/4/21	08:00 Eastern		Water			X	2	
MW-46S 030421 (480-181708-2)	3/4/21	09:35 Eastern		Water			X	2	
MW-22S 030421 (480-181708-3)	3/4/21	10:50 Eastern		Water			X	2	
MW-40 030421 (480-181708-4)	3/4/21	12:00 Eastern		Water			X	2	
MW-31S 030421 (480-181708-5)	3/4/21	08:40 Eastern		Water			X	2	
MW-47S 030421 (480-181708-6)	3/4/21	10:00 Eastern		Water			X	2	
MW-23S 030421 (480-181708-7)	3/4/21	11:25 Eastern		Water			X	2	
MW-33S 030421 (480-181708-8)	3/4/21	12:50 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Christopher Arnold	3/8/21 1760	TA	via FedEx	3/9/21 1000	TAEDI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
☒ Yes ☐ No	1426990	4.3°C IR11

Ver: 11/01/2020

03/16/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181652
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181652
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 03/05/21 11:34 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1426985, 1426984
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0, 3.6°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181708
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181652-1
SDG Number: 480-181652-1

Login Number: 181708
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 03/09/21 11:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1426990
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	