

September 24, 2021

Mr. Douglas MacNeal Division of Environmental Remediation New York State Department of Environmental Conservation 625 Broadway, 11th Floor Albany, NY 12233

Groundwater Monitoring Event Report - 2021 Q2 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 June 7 – 10, 2021 (2021 Q2 GME) which was undertaken in accordance with the Draft Site Management Plan (SMP; AECOM, 2019).

Results from the 2021 Q2 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 Q2 GME is the third GME to be completed since submission of the Draft SMP to NYSDEC in October 2019.

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2. Scope of Work

The scope of work completed for the 2021 Q2 GME included the following:

- On June 7, 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 June 7, 2021, at 26 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.
- Over the period June 8 10, 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.
 - Each well was purged and sampled using low-stress (low flow) groundwater sampling methods by use of a peristaltic pump.
 - 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.

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 were analyzed for BTEX, PAH and total cyanide.
- Groundwater samples were shipped on June 8 and 9, 2021 via courier to Eurofins Test America in Buffalo, New York for laboratory analysis. On June 10, 2021 groundwater samples were dropped off by AECOM at the Eurofins Test America service center in Albany, New York, to be shipped 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 document titled *Subject: Groundwater Monitoring Event Report – September/October 2020 Ithaca Court Street Former MGP Site – OU-2, Ithaca, New York*, dated December 17, 2020 (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-45S, and MW-48S. The redevelopment of these wells is in addition to the wells redeveloped after the 2021 Q1 GME.



3. Groundwater Gauging and Sampling Observations

A total of 41 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 3.09 feet below ground surface (ft bgs) [MW-17D] to 8.32 ft bgs (MW-28S), and overall the groundwater table was lower compared to the previous gauging event completed in March 2021.
- The general direction of groundwater flow in the shallow portion of the aquifer was to the northwest, and comparable to previous sampling events. **Figure 3** attached presents the shallow aquifer inferred groundwater surface contours.
- No measurable NAPL was identified in any of the gauged wells.
- A slight sulfur-like odor was noted during gauging ay MW-20S.
- A faint organic-like odor was noted during sampling at MW-24S.
- Sheen was observed during one sample interval in the purge water at MW-47S and was not observed again.
- Visual observations included the presence of particulate in purge water at MW-22S and MW-25S. MW-22S particulate cleared through the purging, while MW-25S remained persistent during the sampling.

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 for reference.

Observed MGP-constituent trends are either stable or unable to be determined with the exception of ethylbenzene at MW-46S which was noted to have an increasing trend (refer **Section 6.0** for additional discussion regarding trends).

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

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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 area, 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. The extent of BTEX impacts across the monitoring well network is consistent with the previous GME.

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

- The concentration of ethylbenzene at MW-C12 decreased from 31ug/L to 10ug/L, and the reported benzene concentration was comparable to the previous GME.
- Reported BTEX concentrations at MW-23S were comparable to the previous GME.
- The reported benzene concentration remained stable at MW-46S and concentrations of toluene, ethylbenzene and xylenes increased.
- Reported benzene, ethylbenzene, and xylene concentrations at MW-48S were comparable to the previous GME.
- MW-C11, MW-C16, MW-22S, MW-24S, MW-25S, MW-28S, MW-31S, MW-33S, MW-40S, MW-45S, and MW-47S continue to report BTEX concentrations below the AWQS/GV consistent with previous monitoring events.

5.2 Polycyclic Aromatic Hydrocarbons (PAHs)

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

Two of the wells with exceedances are located in the North Plain Street ISCO area, and the other three wells are located to the west of the Site in the Washington Street area. The extent of PAH impacts across the monitoring well network is consistent with the previous GME.

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

- Decreases in reported acenaphthalene concentrations were observed at MW-C12, MW-23S and MW-46S.
- Decreases in reported naphthalene concentrations were observed at MW-23S and MW-46S.
- Reported concentrations of PAHs at MW-48S remained relatively stable.
- MW-C11, MW-22S, MW-24S, MW-25S, MW-28S, MW-31S, MW-33S, MW-40S, MW-45S, and MW-47S have reported PAH concentrations below the AWQS/GV consistent with previous monitoring events.

5.3 Total Cyanide

No locations reported a total cyanide concentration above the AWQS/GV at the time of the 2021 Q2 GME. Since the previous GME, the reported total cyanide concentration at MW-22S decreased to below the AWQS/GV of 0.2 mg/L.

Total cyanide was detected in the Equipment Blank at a concentration estimated to be less than the reporting limit (refer to the DUSR presented in **Appendix C**). As noted in the DUSR, the reported result for the associated sample (MW-C12) was greater than the reporting limit, but less than ten times the blank concentration, and it is noted the result is less than the AWQS/GV and is likely biased high for MW-C12.

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.



- Consistent with the previous GME:
 - Sulphate was reported at concentrations above the AWQS/GV at MW-C11 and MW-C16.
 - Ammonia were reported above the AWQS/GV at MW-C11, MW-46S and MW-47S.
 - 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 -164.4 MeV (MW-C11) to 222.1 MeV (MW-22S) and DO ranged from 0.01 mg/L (MW-47S) to 7.7 mg/L (MW-48S).

Decreases in DO concentrations were observed in all wells across the monitoring well network when compared to the previous GME, with the exception of MW-48S.

Increases in 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, MW-C16, MW-28S, MW-46S, MW-47S, and MW-48S indicating reducing conditions.

6. Mann-Kendall Analysis

Mann-Kendall trend analysis has been completed for constituents of concern, namely; benzene, ethylbenzene, toluene, xylenes, acenaphthalene, naphthalene and total cyanide at MW-C11, MW-C12, MW-C16, MW-22S, MW-23S, MW-46S and MW-48S. Data obtained from GMEs completed since June 2016 are included in the dataset.

The following is noted regarding trends of constituents of concern:

- Benzene concentrations at MW-23S and MW-48S are stable, and no trend is observed at MW-C11, MW-C12, MW-C16, MW-22S, and MW-46S.
- Ethylbenzene concentrations at MW-23S are stable, and no trend was observed at MW-C11, MW-C12, MW-C16, MW-22S, and MW-48S. An increasing trend is noted at MW-46S.
- Toluene concentrations at MW-C12, MW-23S, and MW-48S are stable, and no trend is observed at MW-C11, MW-C16, MW-22S, and MW-46S.
- Total xylenes concentrations at MW-22S, MW-23S and MW-48S are stable, and no trend was observed at MW-C11, MW-C12, MW-C16, and MW-46S.
- Acenaphthalene concentrations at MW-C11, MW-22S, and MW-23S are stable, and no trend was observed at MW-C12, MW-C16, MW-46S, and MW-48S.
- Naphthalene concentrations at MW-22S are stable, and not trend is observed at MW-C11, MW-C12, MW-C16, MW-23S, MW-46S, and MW-48S.
- Total cyanide concentrations at MW-C11 are stable, and no trend is observed at MW-C12, MW-C16, MW-22S, MW-23S, MW-46S, and MW-48S.

Mann-Kendall analysis for constituents of concern is provided in Appendix D.

7. Removal of Sediment and Residual Solids

Monitoring wells 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 3.5 and 2.5 gallons were removed from MW-45S and MW-48S, respectively. 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.



As a result of the additional pumping, 0.15 and 0.17 feet were gained from MW-45S and MW-48S, respectively. As MW-48S continues to have greater than 0.5 feet reduction from the original installation depth, this well will be targeted during the 2021 Q3 GME.

It is noted that this activity was undertaken following sampling as use of the Whale Pump prior to sampling would disturb the water column and potentially impact analytical results.

8. Conclusions and Recommendations

Based on the results of the 2021 Q2 GME, the following conclusions are provided:

- Consistent with the previous GME, MGP-related constituents were reported below the applicable AWQS/GV at MW-C11, MW-22S, MW-24S, 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-C12, MW-C16, MW23-S, MW-46S and MW-48S.
- When compared with the previous GME:
 - Increases in select MGP-related constituents were reported at MW-23S (benzene, ethylbenzene, total xylenes), MW-46S (BTEX) and MW-48S (benzene and select PAHs including acenaphthene and naphthalene).
 - Decreases in select MGP-related constituents were reported at MW-C12 (benzene, ethylbenzene and select PAHs including acenaphthene), MW-22S (benzene, ethylbenzene, xylenes), and MW-48S (benzene, acenaphthene, naphthalene).
- Based on the Mann-Kendall analysis dataset, observed MGP-constituent trends are either stable or unable to be determined with the exception of ethylbenzene at MW-46S which is noted to have an increasing trend.

In accordance with the Draft SMP, additional data will be collected to further assess seasonal fluctuations and inform an appraisal of MGP-constituent concentrations 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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Figures

Figure 1: Site Location Plan Figure 2: Monitoring Well Location Plan Figure 3: Shallow Aquifer Groundwater Contour Plan – June 2021 Figure 4: Groundwater Exceedance Plan – BTEX and PAHs – June 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 Appendix D: Mann-Kendall Analysis

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

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



Figure: 1



ACOM Figure: 2

MONITORING WELL LOCATION PLAN

Date: SEPTEMBER 2021 NEW YORK STATE ELECTRIC & GAS CORP. FORMER COURT STREET MGP SITE - OU-2 ITHACA, NEW YORK Project No.: 60615225 Date: SEPTEMBER 20



SHALLOW AQUIFER GROUNDWATER CONTOUR PLAN - JUNE 2021

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





Tables

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Table 1: Groundwater Gauging Table 2021 Q2 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 Monitor	ing Plan Locati	ons - Gauged	and Sampled		1	1	1		
MW - C11	6/7/2021	17.21	17 - 15	15 - 10	5.39	5.66	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - C12	6/7/2021	17.22	17 - 15	15 - 10	6.09	6.30	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - C16	6/7/2021	15.94	16 - 14	14 - 9	4.62	4.84	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - 22S	6/7/2021	13.61		14 - 4	4.08	4.49	N	NA	Well located in a flower bed and in good condition. Purge water clear with slight particulate suspension, and no odor or sheen noted.
MW - 23S	6/7/2021	13.65		14 - 4	6.34	6.94	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted. Well has very good recharge.
MW - 24S	6/7/2021	13.66		14 - 4	6.31	NC	N	NA	Well in good condition. Purge water cleared up, faint organic odor detected, no sheen detected.
MW - 25S	6/7/2021	9.71		10 - 3	6.43	6.65	N	NA	Purge water clear, no sheen or odors detected. Well has very poor recharge. Short spikes in tubidity were seen throughout the sampling process, possibly due to low water level.
MW - 28S	6/7/2021	19.50		20 - 7	7.78	8.32	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - 31S	6/7/2021	11.53	-	12 - 4	6.81	7.12	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - 33S	6/7/2021	9.48	-	10 - 2.5	4.33	4.60	N	NA	Well in good condition. Purge water initially tan and cleared towards end of purge, no odor or sheen noted.
MW - 40	6/7/2021	9.38		9 - 3	4.99	5.39	N	NA	Concrete pad loose. Purge water clear, and no odor or sheen noted.
MW - 45S	6/7/2021	14.68	15 - 14	14 - 4	4.74	5.05	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted. Approx. 3.5 gallons were purged for redevelopment at the end of the sampling event.
MW - 46S	6/7/2021	16.78		18 - 8	4.13	4.50	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
MW - 47S	6/7/2021	14.64		15 - 5	4.67	4.99	N	NA	Well in good condition. Purge water clear, no odor detected, sheen was noted during purging for one interval, and was not observed again.
MW - 48S	6/7/2021	13.20	15 - 14	14 - 4	3.98	4.28	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted. Approx. 2.5 gallons were purged for redevelopment at the end of the sampling event.
Additional Lo	ocations - Gaug	ed Only	•	•	•	•	•		
MW - C15	6/7/2021	17.79		16 - 11	4,98	5.21	N	NA	Good condition
MW - C17	6/7/2021	17.11		15 - 10	5.40	5.59	N	NA	Good condition
MW - 13S	6/7/2021	14.33		15 - 5	6 75	7 07	N	NA	Good condition
MW - 13D	6/7//2021	39.79		40 - 30	6.19	6.61	N	NA	Good condition
MW - 14S	6/7/2021	9.47		10 - 3	4.46	NC	N	NA	Good condition
MW - 14D	6/7/2021	33.84			4.83	NC	N	NA	Good condition
MW - 17S	6/7/2021	8.35		9 - 4	2.87	3.32	N	NA	PVC shifted, difficult to remove plug and measure. PVC under steel collar.
MW - 17D	6/7/2021	29.46		30 - 20	2.79	3.09	N	NA	PVC shifted difficult to remove plug and measure. PVC under steel collar
MW - 20S	6/7/2021	14 46		15 - 5	5 78	NC	N	NA	Good condition slight sulfur odor noted during dauging
MW - 20D	6/7/2021	33.36		34 - 24	4 87	NC	N	NA	Good condition
MW - 21S	6/7/2021	9.46		10 - 5	3.80	4,15	N	NA	Good condition
MW - 21D	6/7/2021	29.42		30 - 20	3 13	3.68	N	NA	Good condition
MW - 22D	6/7/2021	29.72		30 - 20	3.61	4 09	N	NA	Well located in flower bed good condition
MW - 23D	6/7/2021	29.33		30 - 20	4.96	5 35	N	NA	Good condition
MW - 24D	6/7/2021	32.68			4.58	NC	N	NA	Cover not bolted down, good condition
MW - 27	6/7/2021	8.86		10 - 3	5.64	6.08	N	NA	Good condition
MW - 29S	6/7/2021	12 01			6 70	7 02	N	NA	Good condition
MW - 30S	6/7/2021	9.96		12 - 2.5	5.55	5.78	N	NA	Good condition
MW - 32S	6/7/2021	9.47		10 - 4	3.94	4.35	N	NA	Good condition
MW - 34S	6/7/2021	9.52			4.48	4.90	N	NA	Good condition
MW - 35S	6/7/2021	4.28		8 - 3	4.27	4.82	N	NA	Good condition; Reduced well depth compared to original installation depth.
MW - 37	6/7/2021	7.80		8-3	3.59	4.18	N	NA	Good condition
MW - 38S	6/7/2021	14.18		8 - 3	7.64	7.96	N	NA	Good condition
MW - 41S	6/7/2021	16.82		9-3	6.68	7.00	N	NA	Good condition
MW - 42	6/7/2021	11.27			6.80	7.27	N	NA	Good condition
MW - 43S	6/7/2021	14.26		15 - 5	6.32	6.73	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



Table 2: BTEX, PAHs and Total Cyanide 2021 Q2 Groundwater Monitoring Event Ithaca Court Street Former MGP Site - OU2 Ithaca, New York

				BTE	K μg/L									PAHs	μg/L								Cyanide (mg/L)
Sample ID	Laboratory Report Number	Sample Date	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/GV1	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
IVIVV-CTT	175904	3/3/2021	4 U	4 U	4 1	U 2 U	3.6 1.3 J	0.53 J	<u>2.4</u> U 10 U	<u>2.4</u> U 10 U	2.4 U	<u>2.4 U</u> 10 U	4.6 U 20 U	4 U	2.4 U 10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 0 0.040
DUP (MW-C11)	181652	3/3/2021	4 U	4 U	4 1	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	J 0.05 U	0.043 J	0.033
	185822	6/9/2021	2 U	2 U	2 1		1.5 J	6 U	10 U	10 U	10 U	10 U	20 U	4 U	10 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.017
	175904	10/1/2020	9.8	<u> </u>		U 2 U	81	1.4 0	0.096 J	0.48 U	0.48 U	<u> </u>	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	0.016
MW-C12	181652	3/4/2021	16	31	1 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	U 0.05 U	0.010
	185894	6/10/2021	11	10	1 1	U 2 U	92	6 U	10 U	10 U	10 U	13	20 U	4 U	10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	J 0.05 L	J 0.017 J+
	2149189	6/7/2016	1 U	1 U	1 ไ	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
MW-C16	175904	10/1/2020	0.82 J	2 U	2 1	<u>U 4 U</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
	181052	6/9/2021	4 0	4 0			15	6 1	10 0	10 0		2.7 J	20 0	4 0	10 0	0.024 J	0.025 J	0.035 J	0.05 0	0.05 UJ	0.05 0		0.010
	2150102	6/9/2016	2 U 1 U	1 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
MVV-22S	175829	9/30/2020	24	11	10 l	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 (MW-22S)	175829	9/30/2020	21		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
	185758	6/8/2021	1 U	1	1	2 0	0.48 U	0.13 J	0.48 U	0.48 U	0.19 J	0.48 U	0.068 J	0.19 U	0.48 U	0.046 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	1 0.05 U	0.06 J
	2150484	6/10/2016	5 U	82.4	5 L	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
MW-23S	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 0	26	2	0 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 0	0.05 0	0.005 J
	2149634	6/8/2016	1.1 J	1 U	1.3 1 l	J <u>22</u> U 3 U	30	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	14 J	1.7 U	23 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.0072 J
1000	175904	10/1/2020	1 U	1 U	1 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
MVV-24S	181652	3/3/2021	1 U	1 U	1 เ	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	J 0.05 U	J 0.05 U	0.010 U
	185822	6/9/2021	1 U	1 U	1 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 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	J 0.05 L	0.0091 J
	2149634	6/8/2016	1 U	1 U		<u>U 3 U</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
MW-25S	175904	3/4/2021	0.5 11				0.46 0	0.29 0	0.46 0	0.46 0	0.46 0	0.46 U	0.95 0	0.19 0	0.46 U	0.050 0	0.050 0	0.050 0	0.050 0	0.050 0	0.050 0		0.026
	185822	6/9/2021	1 U	1 U		U 1 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 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.020
	2149634	6/8/2016	1 U	1 U	1 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
MW-28S	175904	10/1/2020	1 U	1 U	1 l	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
1111 200	181652	3/3/2021	1 U	1 U	1 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	J 0.05 U	0.05 U	0.010 U
	185822	6/9/2021	1 U				0.5 0	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U		0.02 U	0.5 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 L	0.009 J
	175829	9/30/2020	1 U	1 U		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	0.005 U
MW-31S	181652	3/4/2021	1 U	1 U	1 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	J 0.05 U	J 0.05 U	0.010 U
	185758	6/8/2021	1 U	1 U	1 เ	U 2 U	0.48 U	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.190 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	J 0.05 L	i 0.010 U
DUP (MW-31S)	185758	6/8/2021	1 U	1 U	1 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	0.190 U	0.48 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	J 0.05 L	0.010 U
	2150102	6/9/2016					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
MW-33S	181652	3/4/2021	1 U	1 U	1 1	U 2 U	0.5 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.13 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 0	J 0.010 U
	185758	6/8/2021	1 U	1 U	1 1	U 2 U	0.48 U	0.29 U	0.48 U	0.48 U	0.48 U	0.48 U	0.22 J	0.19 U	0.48 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 L	0.010 U
	2150484	6/9/2016	1 U	1 U	1 เ	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
MW-40	175829	9/30/2020	1 U	1 U	1 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	6/8/2021	1 0				0.5 0	0.3 U	0.5 0	0.5 0	0.5 U	0.5 U	1 U	0.2 0	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 0		0.010 U
	2150484	6/9/2016	1 U	1 U		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	0.0100 U
MW 459	175829	9/30/2020	1 U	1 U	1 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
10100-405	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 L	0.010 U
	185758	6/8/2021	1 U	1 U	1 0	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 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 L	0.0100 U
	175829	9/30/2020	720	790	29.5 20 U	U 210	43	2.8 J	1.0 2.2 J	1.9 J	2.3 J	<u> </u>	1100	7.6	1.9 3.8 J	0.41	0.32	0.26	0.15	0.093	0.045 J	0.15	0.003 U
MW-46S	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
	185758	6/8/2021	1200	1200	65	580	75 J	57 U	95 U	95 U	95 U	16 J	2200	38 U	95 U	2.5 J	2.8	1.8	1.1	0.95	0.34	1.1	0.012 J+
	2150484	6/9/2016	1 U	1 U	1 U	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
MW-47S	175829	9/30/2020					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 0	0.010 U
	185758	6/8/2021					0.91 J	1.5 U	2.5 0	2.5 0	2.5 0	2.5 U	5.0 U	0.95 11	2.5 0	0.05 0	0.05 U	0.05 U	0.05 0	0.05 03	0.05 0		0.010 0
	2150102	6/9/2016	174	275	5 1	U 31.7	32.7	1.4 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	0.010 34
MM/ 490	175829	9/30/2020	69	26	2 l	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
11114485	181652	3/3/2021	35	39	2 1	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	U 0.05 U	0.010 U
	185758	6/8/2021	41	25	1 1	U 12	36	1.3 J	1.7 J	4.8 U	0.8 J	3.7 J	49	5.5	0.83 J	0.033 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.010 U
Equipment Plank	175904	10/1/2020	1 U				0.49 U	0.29 U	0.49 U	0.49 U	0.49 U	0.49 U	0.97 U	0.2 U	0.49 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	6/10/2021	1 1				0.5 0	0.3 U	0.5 0	0.5 0	0.5 0	0.5 U		0.2 0	0.5 0	0.05 U	0.05 U	0.05 0	0.05 0	0.05 U	0.05 0	0.05 0	0.010 U
	181652	3/3/2021	1 U	1 U			I NA	NA NA	NA	NA	NA I	NA	NA NA	NA I	NA	NA NA	NA	NA	NA	NA NA	NA	NA	NA
Trip Blank	185758	6/8/2021	1 U	1 U	1 1	U 2 U	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	185822	6/9/2021	1 U	1 U	1 1	U 2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

 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 Q2 Groundwater Monitoring Event

Ithaca Court Street Former MGP Site - OU2 Ithaca, New York

						М	NA Parameters						F	ield Param	eters	
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)
			250	2	10	1	10	NS	NS	0.3	NS	NS	NS	NS	NS	NS
	175904	10/1/2020	121	0.54	0.024 J	0 05 U	0.024 J	404	0.10 U	4.7	98	6.93	9.81	-87.9	2 29	0.2
MW-C11	181652	3/3/2021	1880	3.4			0.05 U	700	0.17 J	13.6	460	6.68	42.1	-109.4	7.333	0.39
	185822	6/9/2021	3300	6.9			0.024 J	830	0.08 J	26.8	380	7.10	7.81	-164 4	7.9	0.11
	175904	10/1/2020	238	2.5	0.05 U	0.05 U	0.05 U	605	0.10 U	2.8	1000	7.11	5.00	-108.5	1.72	0.21
MW-C12	181652	3/4/2021	214	1.5			0.05 U	538	0.10 UJ	2.1	820	6.98	4.76	-109.4	1.116	0.39
	185894	6/10/2021	237	1.6			0.023 J	502	0.10 UJ	2.5	620	7.30	1.06	-138.9	1.28	0.12 J+
	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
MW-C16	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
	185822	6/9/2021	1650	1.1			0.041 J	625	0.27 J	32.9	20	7.06	25	-156.6	3.63	0.35
	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	1.40	-73.1	0.85	0.39
MW-22S	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
	185758	6/8/2021	46.7	0.02 U			9.2	209	0.10 UJ	0.27	4.0 U	8.66	2.75	222.1	0.73	3.05
	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
MW-23S	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
	185822	6/9/2021	7.5 J	0.54			0.2	228	0.10 UJ	1.3	2500	6.73	0.28	-29.5	0.99	0.66
	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
MW-24S	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
	185822	6/9/2021	37.5	0.03			0.13	352	0.10 UJ	0.24	4.0 U	7.72	3.21	82.4	1.28	0.72
	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
MW-25S	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
	185822	6/9/2021	171	0.02 U			0.055	566	0.10 UJ	48.9	4.0 U	7.15	1.46	94.0	3.68	1.2
	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
MW-28S	181652	3/3/2021	14.4	0.88			0.13	260	0.10 UJ	1.5	3900	7.58	8.80	-91.8	0.692	0.37
	185822	6/9/2021	9.5 J	0.67			0.32	2/5	0.10 UJ	1.8	3000	7.56	2.69	-129.7	0.97	0.13
MW 240	175829	9/30/2020	10.2	0.096	0.025 J	0.05 0	0.025 J	303	0.086 J	1.5	580	6.52	10.1	-11.4	0.67	0.52
IVIVV-315	101032	3/4/2021	16.3	0.051			0.18	258	0.10 UJ	0.39	36	0.91	21.2	10.3	0.549	0.90
	185758	6/8/2021	17.9	0.014 J			0.025 J	260	0.12 J	0.27	130	6.92	0.97	9.2	0.54	0.27
MW 226	191652	9/30/2020	21.2	0.00	0.049 J	0.022 J	0.027 J	421	0.04 J	20.9	190	0.00	4.23	-100.2	0.92	7.16
10100-335	195759	6/9/2021	44.9	0.09			0.22	<u> </u>	0.10 UJ	0.97	1.7 J 16	0.38	171	20.6	1.02	1 15
	175820	9/30/2021	3.6	10.1			0.02 0	217	0.10 00	20.4	950	9.30 6.44	60.1	-29.0	0.376	0.44
MW-40	181652	3/30/2020	13.0	0.11			0.14	147	0.10 11	20.4	55	6.39	4 99	28.6	0.314	1 12
1111-40	185758	6/8/2021	93	0.11			0.52	156	0.10 UJ	2.3	110	6.70	0.91	-25.5	0.304	0.11
	175829	9/30/2020	10 U	3.4	0.098	0.05 U	0.00 0	377	0.10 00	30.1	5800	6.70	57.2	-81 7	1.08	0.5
MW-45S	181652	3/3/2021	11.2	0.44	NA	0.055	0.055	365	0.10.11.1	10.4	24	6.72	53.2	-20.5	0.861	1 39
	185758	6/8/2021	6.9 J	0.85			0.05 U	405	0 10 UJ	10.7	370	6.98	26.3	-37.6	1.21	0.37
	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
MW-46S	181652	3/4/2021	10 U	5			0.05 U	356	0.20 J	10.7	13000	6.78	54.3	-89.9	0.60	0.49
	185758	6/8/2021	10 U	3.3			0.05 U	336	0.10 UJ	8.3	11000	7.08	8.00	-155.6	0.68	0.18
	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
MW-47S	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
	185758	6/8/2021	10 U	8.5			0.05 U	303	0.10 UJ	15.4	13000	6.79	78.2	-144.7	0.75	0.01
	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
MW-48S	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
	185758	6/8/2021	40 U	1.4			0.050 U	338	0.10 UJ	5.8	3000	8.41	9.8	-135.1	3.32	7.7

Notes:

1. Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS/GV) for water class GA.

Bold- Analyte was detected in laboratory analysis
 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

I

	Monitoring Well	Purging / Sampli	na Form	- <u>u</u>		
	Monitoring Men	a diging / Sampi	ing i onni			
Project Name and Number:	NY SET	6 - Imarca	6	26157	225	
Monitoring Well Number:	MW-CI	Date:	_u/0	1/21		
Samplers:	AD + (ЭМ	2011			
Sample Number:	MW-CII 06	0921 QA/Q	C Collected?			
Purging / Sampling Method:	10~ From	penpinp	LOPE	Oedice	ated t	Noi
1 L = Wall Dopth:		12 2.	fact [D(inches)	D (feet)	12
12. D = Riser Diameter (I D):		71.21	fact	1 inches)	D (reet)	
2. U - Riser Diameter (I.U.):			foot		80.0	
15. w = Depth to water: 16. C = Column of Water in Mall.		<u>>.40</u>	foot	2-inch	0.1/	
V = Volume of Water in Well:	- C/2 1/150\/0 50\2/7 A	11.01	reet	3-INCN	0.25	
(5. v = volume of vvater in weil)	² C(3.14159)(0.5D) (7.48	1,05	-gai	4-inch	0.53	
o. 5(v) - Target Purge volume		<u>Ç. 14</u>		8-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	
Parameter	Units		Readings		\checkmark	
Time	24 hr 1000	1005 1010	1015	1020	1025	10
Water Level (0.33)	feet S.LO_	6.016.79	6.91	6.95	4.10	_t.
Volume Purged	gal -	.15 .30	. 55	75	1.10	1. 5
Flow Rate	mL/min 210	216 216	216	210	216	21
Turbidity (+/- 10%)	NTU 59.1	39.1 11.3	9.93	0.35	6.31	7.
Dissolved Oxygen (+/- 10%)	% 5.8	2.1 1.8	1.4	1.3	1.3	1-1
Dissolved Oxygen (+/- 10%)	mg/L .So	.20 0.18	.16	.13	. / 1	0.
Eh / ORP (+/- 10)	MeV ->6.4	-128,8-148.5	-150.9	-157.2	-161.3	-14
		/ /	7 7		7.12	70
Specific Conductivity (+/- 3%)	mS/cm ^c . 4.32	6,21 7.47	- T. J.	4.42	1.00	
Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	mS/cm ^c .4.32 mS/cm .3.56	6.21 7.47	6.151	7.42 p.06	6.22	6.4
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1)	mS/cm ^c . 4.32 mS/cm . 3.56 pH unit 7,19	6,21 7.47 1,98 6.09 7.12 7,10	(9.15 L 7.10	7.06 7.09	6.22 7.09	(6. L 7.
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5)	mS/cm ^c .432 mS/cm .356 pH unit 7,19 C ^e 15.7	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3	6.15 1.7.10	4.42 9.06 7.09 5.3	6.22 7.09 15.3	6.2 7. 15.
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	mS/cm ^c . 4.32 mS/cm . 3.56 pH unit 7, 19 C [*] 15.7 Visual C1CG1	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3 (lear licar	6.15 1 7.10 <u>15.3</u> 1	7.06 7.09 5.3	6.22 7.09 15.3 (1001	6. 2 7. 15. (10
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor	mS/cm ^c .432 mS/cm 356 pH unit 7.19 C ^c 15.7 Visual CIERIC Olfactory NORE	6.21 7.47 1.98 6.09 7.12 7.10 15.2 15.3 (lear licar None None	6.15 1 7.10 15.3 1 CLECIT O NONE	7.92 7.09 7.3 1.20 NONE	6.22 7.09 15.3 CICCC NONE	6. 2 7. 15. (10 NO
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor	mS/cm ^c .432 mS/cm 3.56 pH unit 7,19 C ^c 15.7 Visual CIEGI Olfactory NODE	6,21 7.47 1.98 6.09 7.12 7.10 15.2 15.3 (lear licar None None	6.15 1 7.10 15.3 1 CLECIT C	7.92 7.09 5.3 1ear	6.22 7.09 15.3 CICCC NONE	6. 4 7. 15. (12 NO
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	mS/cm ^c .432 mS/cm .356 pH unit 7,19 C ^e 15.7 Visual CIEAT Olfactory NODE	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3 (lear licar None None	6.15 7.10 15.3 1 CLECIT	7.09 7.09 5.3	6.22 7.09 15.3 CICCIC NONE	6. 4 7. 15. (10 NO
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	mS/cm ^c .432 mS/cm .356 pH unit 7,19 C ^c 15.7 Visual CIEAT Olfactory NONE	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3 (lear licar None None	(6.15) 7.10 15.3 1 CLECIT C NONE	7.92 7.09 5.3 -lear Vone	6.22 7.09 15.3 CICCIC NONE	6. 4 7. 15. (10) NO
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	mS/cm ^c . 4.32 mS/cm . 3.56 pH unit 7, 19 C ^c 15.7 Visual CIECIC Olfactory NONE	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3 (lear licar None None	(6.15) 7.10 15.3 1 CLECIT C NONE	7.92 7.09 5.3 -lear None	6.22 7.09 15.3 Clear None	(0. L 7. 15. (10) NO
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	mS/cm ^c .4.32 mS/cm .3.76 pH unit 7,19 C ^c 15.7 Visual CIEGI Olfactory NONE	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3 (lear licar None None	6.15 1 7.10 15.3 1 Clear a	4.42 p.06 7.09 5.3 -lear None	6.22 7.09 15.3 CICCIC NONE	6. L 7. 15. (10) NO
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	mS/cm ^c .432 mS/cm 3.56 pH unit 7,19 C ^c 15.7 Visual CIEAT Olfactory NODE	6.21 7.47 1.98 6.09 7.12 7.10 15.2 15.3 (1ear licar None None	6.15 1 7.10 15.3 1 CLECIT	4.42 p.06 7.09 5.3 -lear None	6.22 7.09 15.3 (1001) NONE	6. L 7. 15. (10) NO
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	mS/cm ^c .432 mS/cm .3.56 pH unit 7,19 C ^c 15.7 Visual CIEAT Olfactory NONE	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3 (lear licar None None	6.15 7.10 15.3 1 CLECIT	4.42 p.06 7.09 5.3 21ear	6.22 7.09 15.3 CICCIC NONE	6. L 7. 15. 100
Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	mS/cm ^c .432 mS/cm .356 pH unit 7,19 C ^c 15.7 Visual CIEAT Olfactory NONE	6,21 7.47 1,98 6.09 7.12 7.10 15.2 15.3 (lear clear None None	6.15 7.10 15.3 1 CLECIT	4.42 p.06 7.09 5.3 -lear	6.22 7.09 15.3 CICCIC NONE	6. L 7. 15. (12 NO

[Monite	oring Wel	I Purging	/ Sampli	ng Form			<u> </u>
Project Name and Number:		NUISE	6-1m	ica	4	06157	225	
Monitoring Well Number:	1	MW-CI	2	Date:	(1012		
Samplers:		MG +	PM					
Sample Number:	N	101-612	06(02)	QA/QC	C Collected?			
Duraina (Caran lina Mathadu				-	le d'an	-1		
Purging / Sampling Methou.		ON TION	s pen p	und m	QLCNT CI		YPC TU	ung
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well: V = Volume of Water in Well 3(V) = Target Purge Volume 	= C(3.14159	9)(0.5D) ² (7.4	8)	$\frac{17.11}{2"}$ $\frac{17.11}{0.15}$ $\frac{10.96}{1.79}$ $\frac{1.79}{5.37}$	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50	
			Conversion			v given c		
		D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	
Water Quality Readings Collecte Parameter	units	NTU + YSI			Readings		· · · · · ·	
Time	24 hr	0810	085	0820	0825	0830	0835	0840
Water Level (0.33)	feet	6.15	7.10	7.17	7.25	7.27	7.29	7.35
Volume Purged	gal	-	15	.75	1.00	1.50	2.00	2.50
Flow Rate	mL/min	240	240	240	240	240	240	240
Turbidity (+/- 10%)	NTU	7.81	9,103	4.81	3.96	3,84	344	1.04
Dissolved Oxygen (+/- 10%)	%	5.0	2 50	1.5	1.4	1.3	1.1	1.1
Dissolved Oxygen (+/- 10%)	mg/L	50	20	.15	.15	13	.12	.12
Eh / ORP (+/- 10)	MeV	- 86.4	-111.00	-123.1	-1771	-131.2	-136 7	- 139.9
Specific Conductivity (+/- 3%)	mS/cm ^c	2 25	1.86	1.73	171	1 (09	1.70	1.1.8
Conductivity $(+/- 3\%)$	mS/cm	1 79	1.41	1.32	120	1.79	1.30	1.78
pH (+/- 0.1)	nH unit	715	727	7.76	1.77	119	7 20	730
Temp $(+/-0.5)$	C*	12.6	17 11	124	175	12 4	12.6	12.10
Color	Visual	Cien C	14.7	CLOC	CIEC	Charles	clear	(seco
Odor	Olfactory	-	- Circur	CIEUT	-		-	crew
Comments: ରେଲ(DIF @) 09(50					
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	Monit	oring Wel	l Purging	/ Sampli	ing Form			
Project Name and Number:		110	aca	MSE	9	6061	5225	-
Monitoring Well Number:		MW- (10	Date:		4/91	21	
Samplers:		Ab+	-PM					
Sample Number:	P	INCLE O	000921	QA/Q	C Collected?			
Purging / Sampling Method:		low	how	pendu	no hu	dedic	ated	DRE
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well: V = Volume of Water in Well 3(V) = Target Purge Volume 	: = C(3.1415!	9)(0.5D) ² (7.4	8)	15.94 2" <u>4.60</u> <u>11.34</u> <u>1.85</u> 5.55	_feet _feet _feet _feet _gal _gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50	
			Conversio	n factors to	determine	V given C		
		D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch]
Parameter Fime Water Level (0.33) Volume Purged Flow Rate Furbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	0825 4.60 200 52.8 53.2 4.02 -138.4 4.67 2.67	0830 4.9 1.10 200 88.4 15.4 1.57 -[17.1 1.25 0.99	0835 9.40 1.50 150 34.7 11.7 1.18 -129,0 1.93	Readings 0.840 $7,60$ 2.00 $0.75.4$ 7.8 0.98 -135.3 2.09	6845 9.81 2.50 160 31-3 8.4 .84 -139.0 2.29	0870 9.96 2.65 180 2.8.2 7.9 .79 -1424 2.57 2.04	085 10.1 2.80 180 22.0 6.4 -149.0 2.91 2.91
pH (+/- 0.1)	pH unit	7.03	7.03	7.05	7.04	7.04	7.04	7.04
Color Odor	Visual	clecir	CIECIT	clear	clear	ciear	clear	Clean
Comments:	Sar	npling	time	Q	0930	>		

	Monit	oring Wel	l Purging	/ Sampli	ng Form		
Project Name and Number:			macc	K NYSE	6 (106152	25
Monitoring Well Number:	r	IW- (16	cont.	_ Date:		691:	21
Samplers:		A	(pm				
Sample Number:	٢	10-010	0609	21 QA/QC	Collected?	•	
Purging / Sampling Method:		Sca	Ne as	191			
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well: V = Volume of Water in Well 3(V) = Target Purge Volume 	= C(3.14159	9)(0.5D) ² (7.4	8)	15.94 2" 4.40 11.34 1.85 5.55	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50
			Conversio	n factors to	determine	V given C	
		D (inches) V (gal / ft)	1-inch 0.041	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5
Water Quality Readings Collecte	ed Using	NTU + YSI				-	
Parameter	Units			\checkmark	Readings	1 /	
Time	24 hr	00105	0910	0915	0920	0925	
Water Level (0.33)	feet	10.6	10.64	10.75	10.91	10.96	
Volume Purged	gal	4.75	4.85	495	5.00	5.104	
Flow Rate	mL/min	140	160	160	140	160	
Turbidity (+/- 10%)	NTU	15.3	12.10	23.5	24.1	25.0	
Dissolved Oxygen (+/- 10%)	%	4.3	3.8	3.6	3.5	3.5	·
Dissolved Oxygen (+/- 10%)	mg/L	.42	.38	.36	.35	.35	
Eh / ORP (+/- 10)	MeV	-158.6	-163.6	-157.6	-160.5	-156.6	
Specific Conductivity (+/- 3%)	mS/cm ^c	3.91	4.98	4.54	41.87	4.67	
Conductivity (+/- 3%)	mS/cm	3,10	.3.97	3.59	3.83	3.63	
pH (+/- 0.1)	pH unit	7.04	7.10	7.04	7.08	7.06	
Temp (+/- 0.5)	C*	14.0	13.9	14.0	13.7	13,8	
Color	Visual	Clear	clear	clear	Clear	Clear	
Odor	Olfactory	-	-			-	
Comments:		E c.o.	001000		930		
		SUN	pring				

Page 2 of Z

	Monit	oring Wel	l Purging	/ Sampli	ng Form		
Project Name and Number:		NYSE	G - I	thaca.	- 606	15225	
Monitoring Well Number:	1	mw - 22 9	\$	Date:	6181	121	
Samplers:		Patrick ,	MeHy				
		M12-2'	200	Maria		. 10	- 110
Sample Number:		The p	K) 660	YZ QA/QO	Collected?	NIS	- /0(
Purging / Sampling Method:		per: 1	un U	, / Jed.	ated h	. b.j.	
1. L = Well Depth:		10		13.61	feet	D (inches)	D (feet)
2. D = Riser Diameter (I.D.):				016	feet	1-inch	0.08
3. W = Depth to Water:			•	4.61	feet	2-inch	0.17
4. C = Column of Water in Well	:			9.6	feet	3-inch	0.25
5. V = Volume of Water in Well	= C(3.14159	9)(0.5D) ² (7.4	8)	1.56	gal	4-inch	0.33
6. 3(V) = Target Purge Volume				4.70	gal	6-inch	0.50
			Conversior	n factors to	determine	V given C	
		D (inches)	1-inch	Z-inch	3-inch	4-inch	6-inch
		v (gai / π)	0.041	0.168	0.37	0.65	1.5
Water Quality Readings Collect	ed Using	NTU + YSI				-	
Water Quality Readings Collect Parameter Time	ed Using Units	NTU + YSI	1000	1005	Readings		1020
Water Quality Readings Collect Parameter Time Water Level (0.33)	ed Using Units 24 hr feet	NTU + YSI	1000	1005	Readings	1015.	1020
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged	ed Using Units 24 hr feet gal	NTU + YSI 0955 4.01	1000 4.38 8.36	1005 10.40	Readings	1015 2),46	1020
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate	ed Using Units 24 hr feet gal mL/min	NTU + YSI 0955 4.01 0	1000 4.38 8.35	1005 14.40 0.75	Readings 1010 4.41 1.25	1015 4),46 1,75	1020
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%)	ed Using Units 24 hr feet gal mL/min NTU	NTU + YSI 0955 4.01 0 200 73.5	1000 4.38 6.35 200	1005 14.40 0.75 100	Readings 1010 4.41 1.25 100 7.10	1015 41,46 1.75 100 3.88	1020 4.47 2.00 100 2.82
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%)	ed Using Units 24 hr feet gal mL/min NTU %	NTU + YSI 0955 4.01 0 2.00 73.5 43.4	1000 4.38 6.35 200 10.0 36.0	1005 14.40 0.75 160 16.5 37.9	Readings D10 4.41 1.25 100 7.10 34.4	1015 1,46 1.75 100 3.88 32,1	1020 4.47 2.00 100 2.82 30.8
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	ed Using Units 24 hr feet gal mL/min NTU % mg/L	NTU + YSI 0955 4.01 0 73.5 43.4 4.53	1000 4.38 8.35 200 10.0 35.0 3.70	1005 14.40 0.75 16.5 32.9 3.44	Readings 1010 4.41 1.25 100 7.10 34.4 3.65	1015 41.46 1.75 100 3.88 32.1 3.34	1020 4.47 2.00 100 7.82 70.8 3.21
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV	NTU + YSI 0955 4.01 0 200 73.5 43.4 43.4 4.53 197.1	1000 4.38 6.35 200 10.0 35.0 3.70 210.6	1005 14.40 0.75 16.5 32.9 3.44 213.4	Readings 1010 4.41 1.25 100 7.10 34.4 3.58 212.7	1015 4).46 1.75 100 3.88 32.1 3.34 2176	1020 4.47 2.00 100 7.82 30.8 3.21 218.2
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 0955 4.01 0 73.5 43.4 4.53 197.1 0.95	1000 4.38 6.35 200 10.0 35.0 3.70 210.6 0.44	1005 1.40 0.75 16.5 32.9 3.44 213.4 0.44	Readings 1010 4.41 1.25 100 7.10 34.4 3.55 212.7 0.44	1015 4),46 1.75 100 3.88 32.1 3.34 2176 0.84	1020 4.47 2.00 100 7.82 70.8 3.21 218.2 0.93
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	NTU + YSI 0955 4.01 0 73.5 43.4 4.53 197.1 0.95 0.93	1000 4.38 8.35 200 10.0 35.0 3.70 210.6 0.64 0.72	1005 1005 100 16.5 32.9 3.44 213.4 0.44 0.33	Readings 1010 4.41 1.25 100 7.10 34.4 3.58 212.7 0.44 6.77	1015 4,46 1,75 100 3.88 32.1 3.34 2176 0.84 6.73	1020 4.47 2.00 100 7.82 70.8 3.21 218.2 0.93 0.73
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) ph (+/- 0.1)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit	NTU + YSI 0955 4.01 0 72.5 43.4 4.53 197.1 0.95 0.73 11.57	1000 4.38 8.35 200 10.0 35.0 3.70 210.6 0.64 0.72 10.77	1005 1.40 0.75 1.65 32.9 3.44 213.4 0.44 0.71 9.85	Readings 1010 4.41 1.25 100 7.10 34.4 3.55 212.7 0.44 6.75 9.35	1015 4,46 1,75 100 3.88 32.1 3.34 2176 0.84 6.73 8.40	1020 4.47 2.00 100 7.82 70.8 3.21 218.2 0.93 0.73 8.66
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*]	NTU + YSI 0955 4.01 0 73.5 43.4 4.53 197.1 0.95 0.73 11.57 12.8	1000 4.38 8.35 200 10.0 35.0 3.70 210.6 0.44 0.72 10.77 12.7	1005 1.40 0.75 16.5 32.9 3.44 213.4 0.44 0.44 0.77 5.85 13.6	Readings 1010 4.41 1.25 100 7.10 34.4 3.58 212.7 0.44 6.75 9.35 13.6	1015 4),46 1.75 100 3.88 32.1 3.34 2176 0.84 6.73 8.40 13.3	1020 4.47 2.00 100 7.82 70.8 3.21 218.2 0.93 0.73 0.73 0.73 8.66 13.6
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm° mS/cm pH unit C° Visual	NTU + YSI 0955 4.01 0 1.00 73.5 43.4 4.53 197.1 0.95 0.73 11.57 12.8 (/ex.15	1000 4.38 6.35 200 10.0 35.0 3.70 210.6 0.44 0.72 10.77 12.7	1005 1.00 0.75 1.00 1.6.5 32.9 3.44 2.13.4 0.44 0.44 0.77 9.85 1.3.6 (lear	Readings 1010 4.41 1.25 100 7.10 34.4 3.5 § 212.7 0.44 6.77 9.35 13.6 (1.1)	1015 4),46 1.75 100 3.88 32.1 3.34 2176 0.84 6.73 8.40 13.3 (Jer	1020 4.47 2.00 100 7.82 70.8 3.21 218.2 0.93 0.73 0.73 8.66 13.6
Vater Quality Readings Collect Irrameter me ater Level (0.33) blume Purged ow Rate Irbidity (+/- 10%) ssolved Oxygen (+/- 10%) ssolved Oxygen (+/- 10%) h / ORP (+/- 10) becific Conductivity (+/- 3%) paductivity (+/- 3%)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 0955 4.01 0 73.5 43.4 4.53 197.1 0.95	1000 4.38 6.35 200 10.0 35.0 3.70 2.10.6 0.44	1005 1005 100 100 100 100 100 100	Readings 1010 4.41 1.25 100 7.10 34.4 3.5 § 212.7 0.44 6.77	1015 4,46 1.75 100 3.88 32.1 3.34 2176 0.84 6.77	102 4,4 2.0 100 7.8 30.8 3.2 218.2 0. {3
Vater Quality Readings Collect Parameter Time Vater Level (0.33) /olume Purged Tow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 3%) Dissolved Oxygen (+/- 3%) Conductivity (+/- 3%) Conductivity (+/- 3%) Dissolved Oxygen (+/- 0.5) Color Dissolved Oxygen (+/- 0.5) Dissolved Oxy	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [°] Visual Olfactory	NTU + YSI 0955 4.01 0 200 73.5 43.4 4.53 197.1 0.95 0.73 11.57 12.8 Clear.14	1000 4.38 8.35 200 10.0 35.0 3.70 210.6 0.64 10.72 10.77 10.77 12.7 Llewign.	1005 1.40 0.75 16.5 32.9 3.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.75 13.6 (lew)	Readings 1010 4.41 1.25 100 7.10 3.58 212.7 0.44 6.75 9.35 13.6 (1c.1)	1015. 1,46 1,75 100 3.88 32.1 3.34 2176 0.84 6.73 8.40 13.3 (1417 /	1020 4.47 2.02 100 70.8 30.8 3.2] 218.2 0.83 0.73 8.66 13.6 (155 13.6
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Furbidity (+/- 10%) Dissolved Oxygen (+/- 3%) Dissolved Oxygen (+/- 0.1) Femp (+/- 0.5) Dolor Ddor Dissolved Oxygen (-/- 0.5) Color Ddor Autor (ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [°] Visual Olfactory	NTU + YSI 0955 4.01 0 1.00 73.5 43.4 4.53 197.1 0.95 0.73 11.57 12.8 (learing)	1000 4.38 8.35 200 10.0 35.0 3.70 210.6 0.64 10.77 10.77 12.7 Clewign.	1005 1.40 0.75 16.5 32.9 3.44 0.44 0.44 0.77 9.85 13.6 (lew 5 to how)	Readings 1010 4.41 1.25 100 7.10 3.58 212.7 0.44 6.75 9.35 13.6 (1c.1)	1015. 4),46 1.75 100 3.88 32.1 3.34 2176 0.84 6.73 8.40 13.3 (leir -	1020 4.47 2.08 100 7.82 30.8 3.21 218.2 0.93 0.73 8.66 13.6 (Arr 1000

м	NYSE	1	4			
M		6 -	Ithaca	- 60	615225	
	w-225		Date:	618	1/21	
	Pr				an Addit and a second a	- 5 1614
MUS -	225 06	0821	QA/Q0	C Collected	ms/m	usd
	pett: 1	side	d. cutad	huby	15 E	
			13.61	feet	D (inches)	D (feet)
			0.17	feet	1-inch	0.08
			4.01	feet	2-inch	0.17
l:	2		9.0	feet	3-Inch	0.25
l = C(3.14159	9)(0.5D) ² (7.48	3)	1.56	gal	4-inch	0.33
			4.70	gal	6-inch	0.50
		Conversio	on 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
ted Using Units	NTU + YSI			Readings	-	
24 hr	1030	-	1		1	
feet	4.51					
gal	7.50			-		
mL/min	160					
NTU	2.77					
%	39.3		-			
mg/L	3.65		-		-	
MeV	227.1					-
mS/cm ^c	0.93				-	
mS/cm	1 77		-			
nH unit	866					
	1211				-	
1 1	13.4		_		_	
Visual	Clark		1	1		
	l: I = C(3.14159 ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	$\frac{D (inches)}{V (gal / ft)}$ ted Using $\frac{D (inches)}{V (gal / ft)}$ ted Using $\frac{D (inches)}{V (gal / ft)}$ $\frac{Units}{V (gal / ft)}$ $\frac{24 hr}{10 5 c}$ $\frac{10 5 c}{feet}$ $\frac{4.5 l}{2.50}$ mL/min $\frac{16 c}{NTU}$ $\frac{2.7 >}{\%}$ $\frac{34}{3.50}$ mL/min $\frac{16 c}{NTU}$ $\frac{2.7 >}{\%}$ $\frac{34}{3.50}$ $\frac{10 5 c}{MeV}$ $\frac{2.2 2 l}{2.2 l}$ $\frac{10 5 c}{0.5 3}$ $\frac{10 5 c}{1.5 c}$ $\frac{10 5 c}{1.5 c}$	$\frac{Petr: S/dec}{Petr: S/dec}$ I: I = C(3.14159)(0.5D) ² (7.48) Conversion $\frac{D (inches) 1-inch}{V (gal / ft) 0.041}$ ted Using NTU + YSI Units Units 24 hr 1030 feet 4.51 gal 2.50 mL/min 160 NTU 2.72 % 34,3 mg/L 3.65 MeV 222.1 mS/cm ^c 0.73 mS/cm 0.73	$\frac{ 3.6 }{0.17}$ $\frac{ 3.6 }{1.56}$ $ 3$	$\frac{13.61}{0.17} = 0.100 \text{ feet} + 0.100 \text{ feet} + 0.100 \text{ feet} + 0.170 \text{ gal} + 0.163 \text{ gal} + 0.$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

	Monit	oring Wel	l Purging	g / Sampli	ng Form		
Project Name and Number:		NYSE	io - In	naca -	606	(szz)	5
Monitoring Well Number:		MW-2	35	_ Date:	C19/2	21	
Samplers:		Patrick	Malfe	-			
Sample Number:	A.4	025 06	A971	04/0	7 Callastad9		-
	10-	255 00		- QAIQI			
Purging / Sampling Method:		perri pus	pw/de	diated	they.		
1. L = Well Depth:				13.65	feet	D (inches)	D (feet)
2. D = Riser Diameter (I.D.):				OJT	feet	1-inch	0.08
3. W = Depth to Water:				6.22	feet	2-inch	0.17
4. C = Column of Water in Well				7.37	feet	3-inch	0.25
5. V = Volume of Water in Wel	= C(3.14159)(0.5D) ² (7.4	8)	1.19	gal	4-inch	0.33
6. 3(V) = Target Purge Volume		.,, (,,-	-,	3.58	gal	6-inch	0.50
			Conversio	n factors to	determine	V given C	
				n)		
		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 Collect	ed Using	NTU + YSI		0			
Water Quality Readings Collect Parameter	Units	NTU + YSI	601	A 372	Readings	-	PREC
Water Quality Readings Collect Parameter Time Water Level (0.33)	Units	NTU + YSI	0815	6820	Readings	0830	0835
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged	Units 24 hr feet	NTU + YSI	0815 0.38	6820 6.38 0.65	Readings 0 825 6.38	0830	0835
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Pate	Units Units 24 hr feet gal	NTU + YSI	0815 0.38 0.15	(3875) (6.38 (0.65)	Readings 0 825 6.38 (, 10	0830 6.38 1.610	0835 6.38 2.20
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (±/, 10%)	Units Units 24 hr feet gal mL/min	NTU + YSI 6.33 0 200	0815 0.38 0.15 200	6 872 b 6.38 0.65 200	Readings © 825 6.38 1.10 200 0.90	0830 6.38 7.610 Zoo	0835 6.38 2.20 700
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolued Owner (1/ 109/)	ed Using Units 24 hr feet gal mL/min NTU	NTU + YSI 0.810 6.33 0 100 27.5	0815 0.38 0.15 200 19.7	6.38 6.38 0.65 200 2.99.	Readings © 82S 6.38 1.10 200 0.90	0830 6.38 1.610 200 0.73	0835 6.38 2.20 200 0.39
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	eed Using Units 24 hr feet gal mL/min NTU %	NTU + YSI 0.810 6.33 0 27.5 12.0 1.20	0815 0.38 0.15 200 19.7 8.3	6.38 6.38 0.65 200 2.99. 7.9	Readings © 825 6.38 1.10 200 0.90 6.7 0.90	0830 6.38 7.66 200 0.73 6.2	0835 6.38 2.20 2.00 0.39 6.5
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Eb / OPP (+/- 10)	ed Using Units 24 hr feet gal mL/min NTU % mg/L	NTU + YSI 0810 6.33 0 27.5 17.0 1.23 .88	0815 0.38 0.15 200 19.7 8.3 0.34	6825 6.38 0.65 200 2.99. 7.9 0.80	Readings 0 825 6.38 1.10 200 0.90 6.7 0.69 0.69	0830 6.38 1.66 200 0.73 6.2 0.63	0835 6.38 2.20 7.00 0.39 6.5 0.67
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Sensifie Conductivity (+/- 22())	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV	NTU + YSI 0810 6.33 0 27.5 17.0 1.23 -88	0815 0.38 0.15 200 19.7 8.3 0.24 -20.8	6 820 6.38 0.65 200 2.99. 7.9 0.80 -35.6	Readings © 825 6.38 1.10 200 0.90 6.7 0.69 - 31.6	0830 6.38 7.66 200 0.73 6.2 0.63 - 29.2 A cc	0835 6.38 2.20 200 0.39 6.5 0.67 - 29.9
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Canductivity (+/- 3%)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 0.81D 6.33 0 27.5 17.0 1.23 -8 1.27 1.27	0815 0.38 0.15 200 19.7 8.3 0.84 	6.38 6.38 0.65 200 2.99. 7.9 0.80 -35,6 1.00	Readings \bigcirc 825 6.38 1.10 200 0.90 6.7 0.64 -31.6 0.99	0830 6.38 1.610 200 0.73 6.2 0.63 - 29.2 0.99	0835 6.38 2.20 200 0.39 6.5 0.67 - 29 0.97
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI S81D 6.33 0 27.5 12.0 1.23 -8 1.27 1.05 1.05	0815 0.38 0.15 200 19.7 8.3 0.24 -30.8 1.04 0.83	6.38 6.38 0.65 200 2.99. 7.8 0.80 -35.6 1.00 0.80	Readings 0 825 6.38 1.10 200 0.90 6.7 0.69 - 31.6 0.71 0.71	0830 6.38 1.610 200 0.73 6.2 0.63 - 29.2 0.63 - 29.2 0.95 0.73	0835 6.38 2.20 200 0.39 6.5 0.67 - 29.9 0.97 0.97
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit	NTU + YSI 0810 6.33 0 27.5 17.0 1.23 -8 1.27 1.05 6.70	0815 0.38 0.15 200 19.7 8.3 0.24 -70.8 1.04 0.83 6.70	6.32 6.38 0.65 200 2.99. 7.9 0.80 -35.6 1.00 0.80 6.73	Readings 0 825 6.38 1.10 200 0.90 6.7 0.69 - 31.6 0.99 0.79 0.79 0.79 0.79	0830 6.38 1.610 200 0.73 6.2 0.63 - 29.2 0.99 0.73 6.73 6.73	0835 6.38 2.20 2.00 0.39 6.5 0.67 - 29.9 0.99 0.99 0.76 6,74
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [°]	NTU + YSI 0810 6.33 0 27.5 17.0 1.23 -8 1.27 1.05 6.70 15.1 11.2	0815 0.38 0.15 200 19.7 8.3 0.24 -70.8 1.04 0.83 6.70 14.6	6820 6.38 0.65 200 2.99. 7.9 0.80 -35,6 1.00 0.80 6.73 [4.5]	Readings 0 825 6.38 1.10 200 0.90 6.7 0.64 - 31.6 0.99 0.75 6.72 14.5	0830 6.38 7.610 200 0.73 6.2 0.63 - 29.2 0.95 0.73 6.73 14.5	0835 6.38 2.20 200 0.39 6.5 0.67 - 29.9 0.99 0.76 6,74 14.4
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual	NTU + YSI 0810 6.33 0 27.5 17.0 1.23 -88 1.27 1.05 6.70 15.1 (1eur	0815 0.38 0.15 200 19.7 8.3 0.24 	6.38 6.38 0.65 200 2.99. 7.9 0.80 -35,6 1.00 0.80 6.73 [4.5 (/~r	Readings 0 825 6.38 1.10 200 0.90 6.7 0.69 - 31.6 0.99 0.79 0.79 0.79 0.79 14.5 (leor	0830 6.38 1.610 200 0.73 6.2 0.63 - 29.2 0.95 0.73 6.73 14.5 (140.5)	0835 6.38 2.20 2.20 0.39 6.5 0.67 - 29.9 0.97 0.97 0.97 0.97 0.76 6,74 14.9 Cler
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor	eed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm pH unit C° Visual Olfactory	NTU + YSI 0810 6.33 0 27.5 17.0 1.23 -8 1.27 1.05 6.70 15.1 (/er	0815 0.38 0.15 200 19.7 8.3 0.24 -70.8 1.04 0.83 6.70 14.6 cler /	6.73 6.73 0.65 7.00 7.99 0.80 -35,6 1.00 0.80 6.73 [4.5 (/e.f	Readings 0 825 6.38 1.10 200 0.90 6.7 0.64 - 31.6 0.99 0.75 6.72 14.5 (leon	0830 6.38 1.610 200 0.73 6.2 0.63 - 29.2 0.99 0.73 14.5 (170) (170)	0835 6.38 2.20 2.00 0.39 6.5 0.67 - 29.9 0.99 0.76 6.74 14.9 Cler
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) PH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments: fump & 1 @	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory % % (0)	NTU + YSI 0810 6.33 0 27.5 12.0 1.23 -88 1.27 1.05 6.70 15.1 (10) (10)	0815 0.38 0.15 200 19.7 8.3 0.24 -20.8 1.04 0.83 6.70 14.6 cleo /	6820 6.38 0.65 200 2.99 7.9 0.80 -35,6 1.00 0.80 6.73 [4.5 (1.5	Readings © 825 6.38 1.10 200 0.90 6.7 0.69 - 31.6 0.99 0.75 6.72 14.5 (leor	0830 6.38 1.610 200 0.73 6.2 0.63 - 29.2 0.99 0.73 6.73 14.5 (140)	0835 6.38 2.20 200 0.39 6.5 0.67 - 29.9 0.97 0.97 0.97 0.97 0.97
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments: $fimp$ on C i ji	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm° pH unit C° Visual Olfactory %	NTU + YSI 0810 6.33 0 27.5 17.0 1.23 -88 1.27 1.05 6.70 15.1 (100 15.1 (100 15.1 (100 15.1 (100 20 15.1 (100 20 20 20 20 20 20 20 20 20	0815 0.38 0.15 200 19.7 8.3 0.24 -20.8 1.04 0.83 6.70 14.6 Cleo /	6820 6.38 0.65 200 2.99. 7.9 0.80 -35,6 1.00 0.80 6.73 14.5 (/e.5	Readings 0 825 6.38 1.10 200 0.90 6.7 0.64 - 31.6 0.99 0.75 6.72 14.5 (leor	0830 6.38 7.610 200 0.73 6.2 0.63 - 29.2 0.99 0.73 14.5 (14.5) (14.5)	0835 6.38 2.20 200 0.39 6.5 0.67 - 29.9 0.99 0.76 6.74 14.9 Cler

Project Name and Number*		Char	-NYC	56 -	60615	225		
		- Old		20	00017			
Monitoring Well Number:		MW- 29	5	Date:	_G[9,	121		
Samplers:		Patrick.	Melly	C.				
Sample Number:	1	MW - 24	5 060	521 QA/QC	Collected?			- 22
Purging / Sampling Method:		perri pe	mp c	sidedia	ted ta	by		
1 E = Wall Donth:				17/1	foot	D (inchos)	D (foot)	T
2 D = Pisor Diamotor (I D)				17.66	foot	1_inch		1
2.0 - Mser Diameter (i.b.).				117	feet	2-Inch	0.08	
4. C = Column of Water in Well				C.C.S	feet	3-inch	0.17	T
5. V = Volume of Water in Well	- (3 1/150	$(0.50)^2 (7.4)$	8)	1 39	aal	A-inch	0.23	1
6. 3(V) = Target Purge Volume	- 0(3.14133	///////////////////////////////////////	5)	3.42	gal	6-inch	0.50	1
			Conversior	n 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	L
Parameter	Units	<i>i</i> 135	1140		Readings	-		
Parameter Time	Units 24 hr	i135 0955	1/40	1145	Readings // SO	1155	1200	
Parameter Time Water Level (0.33)	Units 24 hr feet	1135 6955 6.67	1140 04 7.33	1145 7.58	Readings // 50 7.71	1155 7.84 0.75	1206	1
Parameter Time Water Level (0.33) Volume Purged	Units 24 hr feet gal	1135 6.67 0	1/40 7.33 0.15	1145 7.58 0.40	Readings // 50 7.71 0.60	1155 7.84 0.75	1200 7.96 0.96	1
Parameter Time Water Level (0.33) Volume Purged Flow Rate	Units 24 hr feet gal mL/min	1135 6.67 0 200	1/40 7.33 0.15 100	1145 7.58 0.40 150	Readings 1150 7.71 0.60 150	1155 7.84 0.75 150	1206 7.96 0.96 125	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Disselued Outgoon (1/- 10%)	Units 24 hr feet gal mL/min NTU	1135 6.67 0 200 36.6	1140 7.33 0.15 200 7.49	1145 7.58 0.40 150 4.79	Readings 7.71 0.60 150 7.34	1155 7.84 0.75 150 6.22.	1206 7.96 0.96 125 3.98	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	Units 24 hr feet gal mL/min NTU %	1135 6975 6.67 0 200 3 6.6 24.1 731	1140 054 7.33 0.15 100 7.49 25.6 25.6 24	1145 7.58 0.40 150 4.79 11.3	Readings 1150 7.71 0.60 150 7.34 20.1 1.60	1155 7.84 0.75 150 6.22 17.3	1208 7.96 0.96 125 3.98 14.9	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eb / OPP (+/- 10)	Units 24 hr feet gal mL/min NTU % mg/L	1135 6.67 0 200 36.6 24.1 231 1234	1140 064 7.33 0.15 100 7.49 2.5.6 2.47 1216	1145 7.58 0.40 150 4.79 11.3 2.00	Readings 1150 7.71 0.60 150 7.34 20.1 1.90 112 8	1155 7.84 0.75 150 6.71. 17.3 1.63	1200 7.96 0.96 125 3.98 14.9 1.35	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 20/)	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/c=°	1135 0955 6.67 0 200 36 .6 24.1 231 133.4 142	1140 044 7.33 0.15 200 7.49 2.5.6 2.47 121.9	1145 7.58 0.40 150 4.79 1.1.3 2.00 115.2	Readings 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42	1155 7.84 0.75 150 6.22. 17.3 1.63 1.63 1.07.7	1200 7.96 0.96 125 3.98 14.9 1.35 101.5	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^o	1135 0955 <u>6.67</u> <u>0</u> <u>200</u> <u>36.6</u> <u>24.1</u> <u>231</u> <u>133.4</u> <u>1.47</u> <u>1.22</u>	1140 054 7.33 0.15 100 7.49 2.47 121.9 1412 127	1145 7.58 0.40 150 4.79 11.3 2.00 115.2 1.41	Readings 1150 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42 1.22	1155 7.84 0.75 150 6.22 17.3 1.63 1.63 107.7 1.42	1200 7.96 0.96 125 3.98 14.9 1.35 101.5 1.42	 -
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	1135 0,67 0 200 36.6 24.1 231 133.4 1.47 1.23 2.65	1/40 054 7.33 0.15 100 7.99 2.5.6 2.47 121.9 121.9 1412 20 2.20	1145 7.58 0.40 150 4.79 1.1.3 2.00 115.2 -1.41 1.21	Readings 1150 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42 1.42 1.22 0.64	1155 7.84 0.75 150 6.22 17.3 1.63 1.63 1.07.7 1.42 1.23	1200 7.96 0.96 125 3.98 14.9 1.35 101.5 1.42 1.25 1.25	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Tomp (+/- 0.5)	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit	1135 C.67 O 200 36.6 24.1 231 133.4 1.47 1.23 7.92	1140 254 7.33 0.15 200 7.49 121.9 121.9 121.9 121.7 1	1145 7.58 0.40 150 4.79 1.3 2.00 115.2 -1.41 1.21 7.68	Readings 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42 1.42 1.22 7.64	1155 7.84 0.75 150 6.22. 17.3 1.63 1.63 1.63 1.63 1.42 1.42 1.42 1.42	1200 7.96 0.96 125 3.98 14.9 1.35 101.5 1.42 1.25 7.53	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*]	1135 0955 <u>6.67</u> <u>700</u> <u>36.6</u> <u>24.1</u> <u>731</u> <u>133.4</u> <u>1.47</u> <u>1.23</u> <u>7.92</u> <u>16.2</u>	1140 0.15 7.33 0.15 100 7.49 2.47 121.9 121.9 121.9 12.78 16.7	1145 7.58 0.40 150 4.79 11.3 2.00 115.2 -1.41 1.21 7.68 17.6	Readings 1150 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42 1.42 1.22 7.64 17.7	1155 7.84 0.75 150 6.22 17.3 1.63 1.63 1.63 1.63 1.77 1.47 1.47 1.47 1.47 1.23 7.61 17.6	1200 7.96 0.96 125 3.98 14.9 1.35 101.5 1.42 1.25 7.53 18.7	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual	1135 0,67 0 200 36.6 24.1 231 133.4 1.47 1.23 7.92 16.2 Cloudy	1140 0.15 7.33 0.15 100 7.49 2.47 121.9 121.9 121.9 1412 20 7.78 16.7 Cloudy	1145 7.58 0.40 150 4.79 11,3 2.00 115.2 1.41 1.21 7.68 17.6 Coly	Readings 1150 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42 1.22 7.64 17.7 Clerr	1155 7.84 0.75 150 6.22 17.3 1.63 107.7 1.42 1.23 7.61 17.6 17.6	1200 7.96 0.96 125 3.98 14.9 1.35 101.5 1.42 1.25 7.53 18.7 Claur	
Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	1135 0.67 0 200 36.6 24.1 231 133.4 1.47 1.23 7.92 16.2 Cloudy	1/40 044 7.33 0.15 100 7.99 25.6 2.47 121.9 121.9 121.9 121.7 120 7.78 16.7 Cloudy	1145 7.58 0.40 150 4.79 11.3 2.00 115.2 -1.41 1.21 7.68 17.6 (o-ly	Readings 1150 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42 1.42 1.42 1.22 7.64 17.7 Clear	1155 7.84 0.75 150 6.22. 17.3 1.63 107.7 1.63 107.7 1.42 1.23 7.61 17.6	1200 7.96 0.96 125 3.98 14.9 1.35 101.5 1.42 1.25 7.53 18.7 Clacer	
ParameterTimeWater Level (0.33)Volume PurgedFlow RateTurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Eh / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)pH (+/- 0.1)Temp (+/- 0.5)ColorOdorComments: $parameters parameters parameters$	Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	1135 C.67 C.7 C.7 C.7 C.7 C.7 C.7 C.7 C.	1/40 7.33 0.15 100 7.49 25.6 2.47 121.9 142 20 7.78 16.7 Cloudy	1145 7.58 0.40 150 4.79 11.3 2.00 115.2 -1.41 1.21 7.68 17.6 (6-4)	Readings 1150 7.71 0.60 150 7.34 20.1 1.90 112.8 1.42 1.22 7.64 17.7 Clear	1155 7.84 0.75 150 6.22. 17.3 1.63 107.7 1.63 107.7 1.42 1.23 7.61 17.6	1200 7.96 0.96 125 3.98 14.9 1.35 101.5 1.42 1.25 7.53 18.7 Class	

$\frac{PM}{PM}$ PM	5 060921 0mp W 48) [r Conversio 1-inch 0.041 1215 8,30 1.50	Date: QA/QC 1 dedro $13.660.176.6799143.42n factors to12208.47$	C Collected? feet feet feet gal gal determine 3-inch 0.37 Readings 1225 8.56	9/21 9/21 0 (inches) 1-inch 2-inch 3-inch 4-inch 6-inch V given C 4-inch 0.65 1230	D (feet) 0.17 0.25 0.33 0.50 6-inch 1.5	
$\frac{PM}{Qerr}$ $\frac{1}{Qerr}$ $\frac{D (inches)}{V (gal / ft)}$	0 60921 pmp W 48) Conversio 1-inch 0.041 1215 8,30 1.50	QA/QC 1 dedic 13.66 0.17 6.67 99 99 99 99 99 14 3.42 n factors to 1220 8.47	feet feet feet gal gal determine 3-inch 0.37 Readings	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch V given C 4-inch 0.65	D (feet) 9:08 0.17 0.25 0.33 0.50 6-inch 1.5	
$\frac{D (inches)}{V (gal / ft)}$	060921 060921 0000 00 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 00000000	QA/QC 1 dedia 13.66 0.17 6.67 99 99 99 99 99 99 99 99 99 9	Collected? feet feet feet gal gal determine 3-inch 0.37 Readings 1225 8.56	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch V given C 4-inch 0.65	D (feet) 0:08 0.17 0.25 0.33 0.50 6-inch 1.5	
$\frac{2 \text{ esc}}{2 \text{ (inches)}}$ $\frac{D (\text{inches})}{V (\text{gal} / \text{ft})}$ $\frac{D (\text{inches})}{V (\text{gal} / \text{ft})}$ $\frac{\text{NTU} + \text{YSI}}{\text{its}}$ $\frac{1210}{\text{ (inches)}}$ $\frac{1220}{100}$ $\frac{1225}{100}$	A8) (Conversio 1-inch 0.041 (1215 8.30 1.50	1 dedro 1 3. 66 0.17 6.67 99 14 3.42 n factors to 24inch 0.163 PH+0C X 1220 8.47	feet feet feet gal gal determine 3-inch 0.37 Readings 1275 Readings	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch V given C 4-inch 0.65	D (feet) 9:08 0.17 0.25 0.33 0.50 6-inch 1.5	
$\frac{D (inches)}{V (gal / ft)}$	48) /, Conversio 1-inch 0.041 / 12/5 8,30 1.50	3.66 0.17 6.67 99 14 3.42 n factors to 24nch 0.163 0.163 0.163 0.163 0.163	feet feet gal gal determine 3-inch 0.37 Readings	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch V given C 4-inch 0.65	D (feet) 0.17 0.25 0.33 0.50 6-inch 1.5	
$\frac{D (inches)}{V (gal / ft)}$	48) /, Conversio 1-inch 0.041 / 12/5 8,30 1.50	0.17 6.67 99 14 3.42 n factors to 24nch 0.163 0.163 1220 8.47	feet feet gal gal determine 3-inch 0.37 Readings	1-inch 2-inch 3-inch 4-inch 6-inch V given C 4-inch 0.65	9:08 0.17 0.25 0.33 0.50 6-inch 1.5	
4159)(0.5D) ² (7.4 D (inches) V (gal / ft) V (gal / ft) its V hr j 2 / 0 et $\Re \cdot 2^{\circ}$ hl \int	48) [, Conversio 1-inch 0.041 / 12/5 8,30 (.50	6.67 99 14 3.42 n factors to 24inch 0.163 0.163 1220 8.47	feet feet gal gal determine 3-inch 0.37 Readings 1275 8-56	2-inch 3-inch 4-inch 6-inch V given C 4-inch 0.65	0.17 0.25 0.33 0.50 6-inch 1.5	
4159) $(0.5D)^2(7.4)$ D (inches) V (gal / ft) V (gal / ft) its $\sqrt{1210}$ its $\sqrt{1210}$ 8.2° al 5.2° al a	48) (, Conversio 1-inch 0.041 / 1215 8,30 1.50	99 14 3.4 2 n factors to 24inch 0.163 PH+0C X 1220 8.47	feet gal determine 3-inch 0.37 Readings 1275 Resc	3-inch 4-inch 6-inch V given C 4-inch 0.65	0.25 0.33 0.50 6-inch 1.5	
4159)(0.5D) ² (7.4 D (inches) V (gal / ft) V (gal / ft) its $$ hr /2/0 et $\Re.2^{\circ}$ al $\int.3^{\circ}$ min /25	48) /, Conversio 1-inch 0.041 / 1215 8,30 1.50	14	gal gal determine 3-inch 0.37 Readings 1275 Resc	4-inch 6-inch V given C 4-inch 0.65	0.33 0.50 6-inch 1.5	
D (inches) V (gal / ft) V (gal / ft) its hr 12 10 et 8.2° al 1.75 min 125	Conversio	3.42 n factors to 24nch 0.163 0.163 0.163 0.163 0.163 0.163 0.163	gal determine 3-inch 0.37 Readings 1275 Resco	6-inch V given C 4-inch 0.65	0.50 6-inch 1.5]
D (inches) V (gal / ft) V (gal / ft) its hr 12.10 et 8.20 al 1.75 min 125	Conversio 1-inch 0.041 / 12/5 8.30 1.50	n factors to 24inch 0.163 0.163 0.163 0.163 0.163 0.163	determine 3-inch 0.37 Readings 1275 8-56	V given C 4-inch 0.65	6-inch 1.5	
D (inches) V (gal / ft) Mr 1210 Mr 1210 Mr 5.20 Ml 5.20 Ml 5.25 Ml 1.25	1-inch 0.041 / 1215 8.30 1.50	24inch 0.163	3-inch 0.37 Readings 1275 R.56	4-inch 0.65 /230	6-inch 1.5	
$\frac{V (gal / ft)}{V (gal / ft)}$ $\frac{V (gal / ft)}{V (gal / ft)}$ $\frac{its}{V}$ $\frac{\sqrt{1210}}{V (gal / ft)}$ $\frac{1210}{V (gal / ft)}$ $\frac{1210}{V (gal / ft)}$ $\frac{1210}{V (gal / ft)}$	0.041 1215 8,30 1.50	0.163 pH+0c X 1220 8.47	0.37 Readings 1275 R .56	0.65	1.5	
$\begin{array}{c c} I \\ I $	/ 1215 8,30 1.50	PH+00 X 1220 8.47	Readings 1275 R.56	1230	1235	
hr 1210 et 8.20 dl 1.35 min 125	1215 8,30 1.50	1220	1225	1230	1235	
et 8.20 al 1.75 min 125	8,30	8.47	8.56			
al 1.75 min 125	(.50	1 1 1 0	1.1	8.62	8.75	
min 125		1.65	1.75	1.70	2.05	
	175.	125	100	100	100	
U 4.37	4.28	323	5.37	4.62	5.21	
6 <u>[[.[</u>	9.9	9,1	3.2	4.7	4.8	
/L 1.05	0.92	0.87	0.80	0.72	0.72	
V 87.2	85.9	71.3	+6.5	73.4	82.4	
cm ^v 1.43	1,42	1.43	142	1.43	1.45	
cm 1.25	1.25	1.24	1.24	1.20	1,28	
	7.47	8.14	7.70	4.68	1.72	
. 18.3	18.4	18.3	18.5	18.8	18.5	
ual Charr	Clear	Clear	Class	Clar	cler	
ctory		/				
1235	>					
	V 89.2 cm ^c 1.43 cm 1.25 init 7.50 18.3 ual Char- tory	V 89.2 85.9 cm° 1.43 1.42 cm 1.25 1.25 init 7.50 7.43 18.3 18.4 ual Chr. 1235	$\frac{1}{1235} = \frac{1}{1235} = \frac{1}{1235} = \frac{1}{125} = \frac$	V 39.2 \$5.9 71.3 76.5 cm ^c 1.43 1.42 1.43 1.42 cm 1.25 1.25 1.24 1.24 init 7.50 7.47 8.14 7.76 18.3 18.4 18.3 18.5 ual Clar. Clear Clear 1235 1235 1235	V 39.2 85.9 71.3 76.5 73.4 cm ^c 1.43 1.42 1.43 1.42 1.43 cm 1.25 1.25 1.24 1.24 1.20 init 7.50 7.43 8.14 7.76 7.68 18.3 18.4 18.3 18.5 18.8 ual Char Clear Clear Clear 17235 1235 1235 1235 1235	$\frac{1}{1235} = \frac{1}{1235} = \frac{1}{125} = $

	Monit	oring Wel	l Purging	/ Sampli	ng Form		40 N	
Project Name and Number:		NYSE	<u>c - IH</u>	nich -	- 606	15225		
Monitoring Well Number:		Mw · 2	55	Date:	6/91	21		
Samplers:		Patrick	Mcltyl					
Sample Number:	MW	- 225 0	60921	QA/QC	Collected?	~		
Purging / Sampling Method:		per: p	my wi	dedraha	1 t.c.			
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well: V = Volume of Water in Well = 3(V) = Target Purge Volume 	= C(3.14159	9)(0.5D) ² (7.4	8)	9.71 0.17 6.43 3.20 0,53 1.6	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50	
			Conversion	n factors to	determine \	√given C		
		D (inches) V (gal / ft)	1-inch 0.041	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5	
Water Quality Readings Collecte	d Using	NTU + YSI				lower	f self;	<u>.</u>
Parameter	Units				Readings	(-		
Time	24 hr	0920	0925	0930	0935	0940	0945	0950
Water Level (0.33)	feet	6.43	6.84	7.21	7.40	7.52	7.64	7.82
Volume Purged	gal	0,00	0.10	0.25	0.30	0,35	0.40	0.45
Flow Rate	mL/min	100	50	50	600	50	50	50
Turbidity (+/- 10%)	NTU	14.9	17.6	13.6	8.62	5.15	1.83	1-55
Dissolved Oxygen (+/- 10%)	%	30.2	20.0	17.9	15.8	1420	13.0	12.6
Dissolved Oxygen (+/- 10%)	mg/L	303	2.06	1.82	1.60	1.41	1.31	1.28
Eh / ORP (+/- 10)	MeV	135.4	121.5	113.0	106.8	103.6	100,6	96.8
Specific Conductivity (+/- 3%)	mS/cm ^c	4.58	4.62	4.68	4.60	4.68	4.69	4.69
Conductivity (+/- 3%)	mS/cm	3.71	3.61	3.69	3.70	3.70	3.72	5.71
pH (+/- 0.1)	pH unit	6.88	6.91	6.98	6.78	6.70	6.80	2.24
Temp $(+/-0.5)$	C'	16.0	13.6	14.0	14.0	14.0	14.2	14.1
Color	Visual	(1991	lles	iler	cles	eles	clew	Clean
Odor	Olfactory	/						/
Comments: pump or No odor	C 15 Shern	0920	• W 2 • G	flow rat	s known le hear le rel drog	on is on flow any for May not	+ CNCH Stable	Recharge 3/00 6 6 fox
				beij a	dane!.			
								~

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Project Name and Number:		NYSE	6 - 1	marci	6	Obis	225
Monitoring Well Number:		MW-2	85	_ Date:	(1912	,
Samplers:		My	+ PN	1			
Comple Number		290	01.09	2 101/0	C Callastado		
Sample Number.	M	W-223	060		C Collected?	-	
Purging / Sampling Method:		low f	ow pro	gmp	- ded	icated	IDPE
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well V = Volume of Water in Well 3(V) = Target Purge Volume 	: = C(3.14159	9)(0.5D) ² (7.4	8)	19.50 2" 7.67 11.83 1.93 5.79	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50
			Conversio	n factors to	determine	V given C	
		D (inches)	1-inch	2-inch	3-inch	4-inch	6-Inch
Water Quality Readings Collect	ed Using	NTU + YSI				-	
Water Quality Readings Collect Parameter Time	ed Using Units 24 hr		1140	1145	Readings	-	/200
Water Quality Readings Collect Parameter Time Water Level (0.33)	ed Using Units 24 hr feet	NTU + YSI	1140 7.99	1145	Readings // 50 7.95	1115	/ /200 7.96
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged	ed Using Units 24 hr feet gal	NTU + YSI 1135 7.67	1140 7.99 .15	1145 7,95 • B 0	Readings 1150 7.95 1.00	11 13 7.96 1.50	/ 7.96 2.00
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate	eed Using Units 24 hr feet gal mL/min	NTU + YSI 7.67 	1140 7.99 .15 240	1145 7.95 · 5 0 240	Readings 1150 7.95 1.00 210	11 NJ 7.96 1.50 240	/200 7.96 2.00 240
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%)	eed Using Units 24 hr feet gal mL/min NTU	NTU + YSI 7.67 	1140 7.99 .15 240 8. LI	1145 7,95 · B 0 240 7.29	Readings 1.50 7.95 1.00 2.10 3.08	11 NJ 7.96 1.50 240 2.24	/200 7.96 2.00 240 2.51
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%)	eed Using Units 24 hr feet gal mL/min NTU %	NTU + YSI 7.67 	1140 7.99 .15 240 8.11 3.5	1145 7.95 • B 0 240 7.29 2.2	Readings 7.95 7.95 1.00 2.10 3.08 1.6	11 NJ 7.96 1.50 240 2.24 1.4	/200 7.96 2.00 240 2.51 1.3
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	eed Using Units 24 hr feet gal mL/min NTU % mg/L	NTU + YSI 7.67 	1140 7.99 .15 240 8.11(3.5 .36	1145 7.95 240 7.29 2.2 0.22	Readings 7.95 7.95 1.00 2.10 3.08 1.6 .16	11 NJ 7.96 1.50 240 2.24 1.4 1.4	/200 7.96 2.00 240 2.51 1.3 .13
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10)	eed Using Units 24 hr feet gal mL/min NTU % mg/L MeV	NTU + YSI 1135 7.67 244 8.85 13.0 1.30 1.30 -1.18.7	1140 7.97 .15 240 8.11(3.5 .36 -136.6	1145 7,95 240 7,29 2.2 0.22 144.1	Readings 7.95 7.95 1.00 2.10 3.08 1.6 .16 -142.4	11 NJ 7.96 1.50 240 2.24 1.4 1.4 -15 -138.0	/200 7.96 2.00 240 2.51 1.3 .13 -135.9
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	eed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 7.67 	1140 7.99 .15 240 8.11(3.5 .36 -136.6 0.82	1145 7,95 240 7.29 2.2 0.22 144.1 0.82	Readings 7.95 7.95 1.00 2.10 3.08 1.6 .16 .16 .16 .16 .16 .16 .16	11 NJ 7.96 1.50 240 2.24 1.4 1.4 -15 -138.0 0.95	/200 7.96 2.00 240 2.51 1.3 .13 -135.9 0.97
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	eed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 7.67 	1140 7.97 .15 240 8.11(3.5 .36 -136.6 0.82 0.82	1145 7.95 240 7.29 2.2 0.22 144.1 6.82 6.64	Readings 7.95 7.95 1.00 2.10 3.08 1.6 -16 -142.4 0.90 0.69	/ 7.96 1.50 240 2.24 1.4 1.4 1.5 -138.0 0.95 0.73	/200 7.96 2.00 240 2.51 1.3 .13 -135.9 0.97 0.75
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit	NTU + YSI 7.67 244 8.85 1.30 1.30 1.8.7 0.88 0.69 7.71	1140 7 99 .15 240 8. L1(3. 5 . 36 -136. 6 0. 82 0. 64 7. 72	1145 7,95 240 7.29 2.2 0.22 144.1 0.82 0.64 7.73	Readings 7.95 7.95 1.00 240 3.08 1.6 .16 .16 .16 .16 .16 .16 .16 .16 .16	11 NJ 7.96 1.50 240 2.24 1.4 -15 -138.0 0.95 0.73 7.64	/200 7.96 2.00 240 2.51 1.3 .13 -135.9 0.97 0.75 7.61
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*]	NTU + YSI 7.67 7.67 244 8.85 13.0 1.30 -1/8.7 0.88 0.69 7.71 13.7	1140 7.99 .15 240 8.11(3.5 .36 -136.6 0.82 0.82 0.64 7.72 13.4	1145 7,95 240 7,29 2.2 0.22 144.1 0.82 0.64 7.73 13.3	Readings 1150 7.95 1.00 2.10 3.08 1.6 -142.4 0.90 0.69 7.68 13.2	/ 7.96 1.50 240 2.24 1.4 -15 -138.0 0.95 0.73 7.64 /3.2	/200 7.96 2.00 240 2.51 1.3 .13 -135.9 0.97 0.97 0.75 7.61 13.1
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	eed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm pH unit C* Visual	NTU + YSI 1135 7.67 244 8.85 13.0 1.30 -118.7 0.88 0.69 7.71 13.7 CIEQT	1140 7.99 .15 240 8.11 3.5 .36 -136.6 0.82 0.82 0.64 7.72 13.4 Clear	1145 7.95 240 7.29 2.2 0.22 744.1 0.82 0.64 7.73 13.3 (1ear	Readings 1150 7.95 1.00 240 3.08 1.6 .16 -142.4 0.90 0.69 7.68 13.2 cirar	11 NJ 7.96 1.50 240 2.24 1.4 1.4 1.4 -15 -138.0 0.95 0.73 7.64 13.2 Clear	/200 7.96 2.00 240 2.51 1.3 .13 -135.9 0.97 0.75 7.61 13.1 clear
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor	eed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	NTU + YSI 1135 7.67 244 8.85 13.0 1.30 -118.7 0.88 0.69 7.71 13.7 CIEQT NOME	1140 7.99 .15 240 8.11(3.5 .36 -136.6 0.82 0.82 0.64 7.72 13.4 Clear None	1145 7.95 240 7.29 2.2 0.22 144.1 6.82 6.64 7.73 13.3 (1ear Norre	Readings 1150 7.95 1.00 240 3.08 1.6 -142.4 0.90 0.69 7.68 13.2 cirar Nonl	11 NJ 7.96 1.50 240 2.24 1.4 1.4 -15 -138.0 0.95 0.73 7.64 13.2 Clear None	/200 7.96 2.00 2.51 1.3 .13 .13 .13 .13 .13 .13 .13 .13 .1
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	eed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm pH unit C* Visual Olfactory	NTU + YSI 1135 7.67 -244 8.85 13.0 1.30 1.00 1	1140 7.99 .15 240 8.11 3.5 .36 -136.6 0.82 0.64 7.72 13.4 Clear None	1145 7.95 240 7.29 2.2 0.22 744.1 0.82 0.64 7.73 13.3 Clear None	Readings 1150 7.95 1.00 240 3.08 1.6 .16 .16 .16 .16 .16 .16 .16	11 NJ 7.96 1.50 240 2.24 1.4 .15 -138.0 0.95 0.73 7.64 13.2 Clear None	/200 7.96 2.00 240 2.51 1.3 .13 .13 .13 .13 .13 .13 .13 .13 .1

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Project Name and Number: Monitoring Well Number:								
Monitoring Well Number:			N	1569 -	IMac	<i><i>n</i></i>	60615	527
		MINI. 3	15	Date:	C	1812	(
Samplers		Ph + 6		_0			\	
			1 ⁻ X					
Sample Number:		MW-31	s oco	<mark>ຽ້ 21</mark> QA/Q0	C Collected?	00	0	
Purging / Sampling Method:		law f	iow per	namp	+ ded	icated	LDPE	1
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well V = Volume of Water in Well 3(V) = Target Purge Volume 	: = C(3.14159	9)(0.5D) ² (7.4	8)	11.53 2" (0.82 4.7(0.77 2.31	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50	
			Conversion	n factors to	determine	v given C		
		D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1
		V(gal/ft)	0.041	0.163	0.37	0.65	1.5	1
Water Quality Readings Collect	ed Using	NTU + YSI	0.041					
Water Quality Readings Collect Parameter	ed Using Units		0.041		Readings	/	1	
Water Quality Readings Collect Parameter Time Water Level (0.33)	ed Using Units 24 hr	NTU + YSI	1235	1240	Readings	1250	1255	13
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged	ed Using Units 24 hr feet	NTU + YSI	1235	1240 (e.84	Readings 124 6.85	1250	1255	13 (9-
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Elow Pate	ed Using Units 24 hr feet gal mL/min	NTU + YSI	1235 6.84	1240 (e.84 .30	Readings 12L1 6.85 .45	/ (250) (6.85 .60 2110	1255 6.85 .85	13
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+(~ 10%)	ed Using Units 24 hr feet gal mL/min	1230 (1235 6.84 15 240	1240 (e.84 .30 240	Readings 1245 6.85 .45 240	/ 6.85 .60 240	1255 6.85 .85 240	13
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%)	ed Using Units 24 hr feet gal mL/min NTU %	1230 (- 82 	1235 (6.84 .15 240 3.08	1240 (e.84 .30 240 2.23	Readings 1245 6.85 .45 240 1.68	/ 6.85 .60 240 1.14	1255 6.85 .85 240 1.09 2 4	13 6.
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	ed Using Units 24 hr feet gal mL/min NTU % mg/I	NTU + YSI 12.30 6.82 - 240 29.1 6.6	1235 (6.84 .15 240 3.08 4.9	1240 (e.84 .30 240 2.23 3.7	Readings 1247 6.85 .45 240 1.68 3.3	/ 6.85 .60 240 1.14 3.0 220	1255 6.85 .85 240 [.09 2.4 25	13 6- 1,2 0 2
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV	$ \frac{1230}{6.82} \frac{-240}{29.1} \frac{240}{6.6} \frac{9}{6.9} \frac{-199}{6.9} $	1235 (6.84 .15 240 3.08 4.9 .51	1240 (e.84 .30 240 2.23 3.7 0.39	Readings 1245 .45 240 1.68 3.3 0.35	/ 6.85 .60 240 1.14 3.0 .32	1255 6.85 .85 240 (09 2.4 .25 5.3	13 6. 2 0 2.
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 1230 6.82 - 240 29.1 6.6 .69 - 69 0.90	1235 (6.84 .15 240 3.08 4.9 .51 1.2	1240 (e.84 .30 240 2.23 3.7 0.39 1.2	Readings 1245 (6.85 .45 240 1.68 3.3 0.35 7.7	/ 6.85 .60 240 1.14 3.0 .32 6.2	1255 6.85 .85 240 [.09 2.4 .25 5.3 (2.7)	13 6- 1,2 0 2, 0 2, 9
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 12.30 (1235 (4.84 .15 240 3.08 4.9 .51 1.2 0.71 (2.51)	1240 (e.84 .30 240 2.23 3.7 0.39 1.2 0.71	Readings 1247 6.85 .45 240 1.68 3.3 0.35 7.7 0.71 (2.51)	1250 6.85 .60 240 1.14 3.0 .32 6.2 0.71	1255 6.85 .85 240 (09 2.4 .25 5.3 0.71	13 6 2 0 2 . 9
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0 1)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	NTU + YSI 12.30 6.82 - 240 29.1 6.6 .69 - 69 0.80 0.80 0.60 7.10	1235 (6.84 .15 240 3.08 4.9 .51 1.2 0.71 (0.54)	1240 (e.84 .30 240 2.23 3.7 0.39 1.2 0.71 0.54	Readings 12L1 6.85 .45 240 1.68 3.3 0.35 7.7 0.71 0.54 1.62	1250 6.85 .60 240 1.14 3.0 .32 6.2 0.71 0.54	1255 6.85 .85 240 (09 2.4 .25 5.3 0.71 0.54	13 6- 1, 2 0. 2 0. 2
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5)	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*]	NTU + YSI 1230 (82 - 240 29.1 (6 (9 9 0.80 0.80 0.60 7.10 12.4	1235 (6.84 .15 240 3.08 4.9 .51 1.2 0.71 0.71 0.54 4.93 1.2	1240 (e.84 .30 240 2.23 3.7 0.39 1.2 0.71 0.54 (e.93	Readings 1245 6.85 .45 240 1.68 3.3 0.35 7.7 0.71 0.54 6.92 1241	/ 6.85 .60 240 1.14 3.0 .32 6.2 0.71 0.54 4.93	1255 6.85 .85 240 (09 2.4 .25 5.3 0.71 0.54 4.92 175	13 6- 20 2. 9 - 0. 6.
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm pH unit C° Visual	NTU + YSI 1230 (-82 - 240 29.1 (-9 - (-9 0.80 0.80 0.60 7.10 12.4 (100)	1235 (6.84 .15 240 3.08 4.9 .51 1.2 0.71 (.54) (6.54) (6.93 12.4)	1240 (e.84 .30 240 2.23 3.7 0.39 1.2 0.71 0.54 (e.93 12.5	$\begin{array}{c} \text{Readings} \\ \hline 1247 \\ 6.85 \\ .45 \\ 240 \\ 1.68 \\ 3.3 \\ 0.35 \\ \hline 7.7 \\ 0.35 \\ \hline 7.7 \\ 0.71 \\ 0.54 \\ 6.92 \\ 12.4 \\ 0.160 \\ c \end{array}$	1250 6.85 .60 240 1.14 3.0 .32 6.2 0.71 0.54 6.2 0.71 0.54 6.93 12.5	1255 6.85 .85 240 (09 2.4 .25 5.3 0.71 0.54 4.92 12.5	13 6- 20 2. 9 0. 6. 12

MW-	NYSEC MU-33 Patrick, 335 06	5 - It S Meltze	Date:	606	15225		
<i>щ</i> ю-	<u>mu-33</u> Patrick, 335 06	'S Meltje	Date:	06/09	2121		
<i>щ</i> ω-	Patrick, 335 06	Meltye			5/21		
MW-	335 06						
		0821	QA/QC	Collected?	~	/	
	perri que	m wid	ed whed	hy +	lasta		
	. /		Gue	<u> </u>	0 ())	D (())	
			7.48	feet	D (inches)	D (feet)	
	1.	7.1	OIT	feet	1-inch	0.08	>
	4.	59 -	-0.57	feet	2-inch	017	
			-4.14	feet (M)	3-inch	0.25	6
= C(3.14159))(0.5D) ² (7.4	8) 0.4	0.674	gal	4-inch	0.33	
		2.5	4.02	gai	6-Inch	0.50	
		Conversion	n factors to	determine \	/ given C		
	D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	í
	V (gal / ft)	0.041	0.163	0.37	0.65	1.5	
			V				
ed Using	NTU + YSI						
Units				Readings			
24 hr	0810	0815	0820	0825	0830	0825	084
feet	45,34	48.76	5.08	5.13	5.66	5.32	5.54
gal	0	0.65	0.50	0.75	00.]	1.25	1. 15
mL/min	2130	2100	2100	7100	2100	100	100
NTU	159	74.2	30.6	21.5	34.9	1/ +.5	8.0
%	20.8	6.6	13.5	12.6	12.8	12.0	11.0
mg/L	2.1(1:72	1.39	1.29	1.35	1.25	1.17
MeV	×11.5	30.D		~~~~	- 14		
	1011		0.1	313	0.9	10.1	-412
mS/cm ^c	1.32	1.31	1.31	1.30	1.36	1.35	1.33
mS/cm ^c mS/cm	1.32	1.31	1.31	1.30 1.04	1.36 1.05	1.35	1.33 1.05
mS/cm ^c mS/cm pH unit	1.32 1.04 11.42	1.31 1.03 11.20	1.31 1.03 10.60	1.30 1.04 1020	0.9 1.36 1.05 9.90	1.35 1.06 9.66	1.33 1.05 9.55
mS/cm ^c mS/cm pH unit C°	1.32 1.04 11.42 13.9	1.31 1.03 11.20 13.7	1.31 1.03 10.60 13.9	1.30 1.04 1020 14.3	0.9 1.36 1.05 9.90 13.7	10.1 1.35 1.06 9.66 14.0	1.33 1.05 4.59 13.7
mS/cm ^c mS/cm pH unit C [*] Visual	1.32 1.04 11.42 13.9 Clauely	1.31 1.03 11.20 13.7 (larly	1.31 1.03 10.60 13.4 (lacdy	1.30 1.04 1020 14.3 Cloudy	0.9 1.36 1.05 9.90 13.7 (lowly	10.1 1.35 1.06 9.66 14.8 (lowh:	1.33 1.05 9.55 13.7 (100th
	= C(3.14159 ed Using Units 24 hr feet gal mL/min NTU % mg/L MeV	$= C(3.14159)(0.5D)^{2}(7.4)$ $= C(3.14159)(0.5D)^{2}(7.4)$ $= Units$ $= Un$	$\begin{array}{c} 4.34 \\ -5.84 \\ -5.85 \\ $	$= C(3.14159)(0.5D)^{2}(7.48) \bigcirc .94 \qquad 0.17 \\ \hline 1.14 \\ \hline 2.5 \qquad 2.62 \\ \hline 2.5 \ 2.5 \\ 2.5 \ 2.5 \\ 2.5 \ 2.5 \\ 2.5 \ 2.5 \\ 2.5 \ 2.5$	$= C(3.14159)(0.5D)^{2}(7.48) \bigcirc .44 \qquad \bigcirc .17 \qquad \text{feet} \\ \hline 4.34 \qquad \bigcirc .17 \qquad \text{feet} \\ \hline 4.14 \qquad \text{feet} \\ \hline 4.14 \qquad \text{feet} \\ \hline 4.14 \qquad \text{feet} \\ \hline 5.17 \qquad \text{gal} \\ \hline 2.5 \qquad 2.62 \qquad \text{gal} \\ \hline 0.041 \qquad 9.163 \qquad 0.37 \\ \hline 0.37 \ 0.37 \\ \hline 0.37$	$= C(3.14159)(0.5D)^{2}(7.48) \bigcirc .44 \xrightarrow{(1,14)}{feet} feet \xrightarrow{(1,14)}{feet} feet \xrightarrow{(1,14)}{feet} \xrightarrow{(1,14)}{feet} \xrightarrow{(1,14)}{feet} \xrightarrow{(1,14)}{gal} \xrightarrow{(1,14)}{gal} \xrightarrow{(1,14)}{gal} \xrightarrow{(1,14)}{gal} \xrightarrow{(1,14)}{feet} \xrightarrow{(1,14)}{gal} \xrightarrow{(1,14)}{Gal$	$= C(3.14159)(0.5D)^{2}(7.48) \bigcirc .44 \qquad \bigcirc .17 \text{feet} \qquad 1-\text{inch} \qquad 0.08 \\ \hline 2-\text{inch} \qquad 0.17 \\ \hline 1144 \text{feet} \qquad \hline 3-\text{inch} \qquad 0.25 \\ \hline 4-\text{inch} \qquad 0.33 \\ \hline 6-\text{inch} \qquad 0.33 \\ \hline 6-\text{inch} \qquad 0.50 \\ \hline 2-5 \qquad 2-5 \qquad \text{gal} \qquad \hline 6-\text{inch} \qquad 0.50 \\ \hline 0 \text{ (inches)} \qquad 1-\text{inch} \qquad 2-\text{joch} \qquad 3-\text{inch} \qquad 0.50 \\ \hline Conversion factors to determine V given C \\ \hline D (\text{inches)} \qquad 1-\text{inch} \qquad 2-\text{joch} \qquad 3-\text{inch} \qquad 4-\text{inch} \qquad 6-\text{inch} \\ \hline V (\text{gal} / \text{ft}) \qquad 0.041 \qquad \cancel{9.163} \qquad 0.37 \qquad 0.65 \qquad 1.5 \\ \hline \text{ed Using} \qquad \text{NTU + YSI} \\ \hline \begin{array}{c} \text{Units} \qquad \qquad \text{Readings} \\ \hline 24 \text{ hr} \qquad \cancel{9.74} \qquad \cancel{9.74} \qquad 5.6820 \qquad \cancel{9.725} \qquad \cancel{9.35} \qquad \cancel{9.75} \\ \text{gal} \qquad 0.25 \qquad \cancel{9.75} \qquad \cancel{9.75} \qquad \cancel{100} \qquad \cancel{1.25} \\ \text{mL/min} \cancel{9.130} \cancel{9.160} \cancel{9.16} \qquad \cancel{9.163} \qquad \cancel{9.13} \qquad \cancel{9.16} \qquad \cancel{9.16} \\ \hline 0 & \cancel{9.163} \qquad \cancel{9.16} \qquad \cancel{9.16} \qquad \cancel{9.16} \qquad \cancel{9.16} \qquad \cancel{9.16} \\ \hline 0 & \cancel{9.16} \qquad $

	Moni	toring Wel	II Purging	/ Sampli	ng Form			
Project Name and Number:		NYSEG	- It	thaca	- 604	01522	5	_
Monitoring Well Number:		MW-335		Date:	6/8	121		
Samplers:		РМ						
Sample Number:	мω	-335 06	,0821	QA/QC	C Collected?	/	1	
Purging / Sampling Method:		Dert: 1	lump ul	dedicat	d his			
		ren i	V	CUE			1	
1. L = Well Depth:				4.44	feet	D (inches)	D (feet)	
2. U = Riser Diameter (I.D.):				014	feet	1-inch	0.08	
 w = Depth to water: C = Column of Mater in Mall 	•		ч	<u>54</u> (11)	feet	2-inch	0.25	
 C = Column of Water in Well V = Volume of Water in Woll 	= (/2 1/15	(0)/0 50) ² /7 A	18)	0.94	reet	3-inch	0.25	
5. V - Volume of Water in Wen	- 0(5.1415	9)(0.50) (7.4	ю)	<u> </u>	gal	4-inch	0.33	
o. 5(v) - raiget ruige volume				1.5	. Bai	0-inch	0.50	
			Conversion	n factors to	determine	V given C		
					I			1
		D (inches)	1-Inch	2-mch	3-inch	4-inch	6-inch	
		v (gai / ft)	0.041	0.163	0.37	0.65	1.5	, i
Parameter	Units	V		/	Readings	_		
Time	24 hr	0845	0850	0,755		1		
Watan Lawal (0.22)	faat	0 21						
water Level (0.33)	1661	5-11	5.82	6.01			14	
Volume Purged	gal	2.00	5.82	6.01	. N			
Volume Purged Flow Rate	gal mL/min	2.00	5.82 2.30 125	6.01 2.68 125				
Volume Purged Flow Rate Turbidity (+/- 10%)	gal mL/min NTU	2.00 125 5.21	5.82 2.30 125 4.92	6.01 2.68 125 4.74				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%)	gal mL/min NTU %	3-71 2.00 125 5.21 11.4	5.71 2.30 125 4.42 11.2	6.01 2.68 125 4,74 1.00.				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	gal mL/min NTU % mg/L	5.71 2.00 125 5.21 11.4 1.17	5.82 2.30 125 4.92 11.2 1.16	6.01 2.68 125 4,74 1.00. 1.15				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10)	gal mL/min NTU % mg/L MeV	5.71 2.00 125 5.21 11.4 1.17 -20.2	5.82 2.30 125 4.92 11.2 1.16 - 28.0	6.01 2.68 125 4,74 1.00. 1.15 - 29.6				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	gal mL/min NTU % mg/L MeV mS/cm ^c	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33	5.82 1.30 125 4.92 11.2 1.16 - 28.0 1.32	6.01 2.68 125 4,74 1.08 1.15 -29.6 1.32				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	gal mL/min NTU % mg/L MeV mS/cm ^c	5-71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04	5.82 2.30 125 4.92 11.7 1.16 - 28.0 1.32 1.04	6.01 2.68 125 4,74 1.08 1.15 - 29.6 1.32 1.02				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Example (+/- 0.25)	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	$\begin{array}{c} 5.71 \\ 2.00 \\ 125 \\ 5.21 \\ 11.4 \\ -20.2 \\ 1.33 \\ 1.04 \\ 9.44 \\ 9.44 \end{array}$	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 4.35	6.01 2.68 125 4,74 1.00 1.15 - 29.6 1.32 1.02 9.38				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Column	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C ^c	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 4.44 13.9	5.82 1.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 4.35 13.6	6.01 2.60 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) oH (+/- 0.1) Temp (+/- 0.5) Color	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 6.44 13.8 Cleur	5.82 2.30 125 4.92 11.7 1.16 - 28.0 1.32 1.04 9.35 13.6 c/eur	6.01 2.60 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ew				
Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	gal mL/min NTU % mg/L MeV mS/cm ^c	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33	5.82 1.30 125 4.92 11.2 1.16 - 28.0 1.32	6.01 2.68 125 4,74 1.08 1.15 -29.6 1.32				
Volume Purged Flow Rate Curbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Ch / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) H (+/- 0.1) Semp (+/- 0.5) Color	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 4.44 13.8 Clear	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 clear	6.01 2.68 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ea/				
Valer Level (0.33) Volume Purged low Rate Purbidity (+/- 10%) Dissolved Oxygen (+/- 10%) bissolved Oxygen (+/- 10%) h / ORP (+/- 10) pecific Conductivity (+/- 3%) Conductivity (+/- 3%) H (+/- 0.1) emp (+/- 0.5) color bdor	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 4.44 13.8 Clear	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 4.35 13.6 clear	6.01 2.60 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ea/				
Water Level (0.33) Volume PurgedFlow RateCurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Ch / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)H (+/- 0.1)'emp (+/- 0.5)ColorOdorComments:	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 9.44 13.8 0/eur	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 clear	6.01 2.68 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ew				
Value Level (0.33) /olume Purged'low Rate'urbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Conductivity (+/- 10)Conductivity (+/- 3%)Conductivity (+/- 3%)H (+/- 0.1)Comments:Sumplied	gal mL/min NTU % mg/L MeV mS/cm [°] mS/cm [°] pH unit C [°] Visual Olfactory	5-71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 9.44 13.8 Clear 555	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 clean	6.01 2.65 125 4,74 1.00 1.15 - 29.6 1.32 1.02 9.38 13.3 (/ew				
Water Level (0.33)Volume PurgedFlow RateFurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Eh / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)Deft (+/- 0.1)Femp (+/- 0.5)ColorDorComments:Sumplied	gal mL/min NTU % mg/L MeV mS/cm° pH unit C° Visual Olfactory	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 9.44 13.8 Clear	S. 82 2.30 125 4. 22 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 Clear	6.01 2.65 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ew				
Water Level (0.33)Volume PurgedFlow RateFurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Eh / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)Dh (+/- 0.1)Temp (+/- 0.5)ColorOdorComments:Sumplied	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 4.44 13.8 Clear 255	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 clan	6.01 2.65 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ea				
Water Level (0.33)Volume PurgedFlow RateFurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Eh / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)Deft (+/- 0.1)Temp (+/- 0.5)ColorDdorComments:Sumplied	gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	S-71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 G.44 13.8 Clear	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 clear	6.01 2.68 125 4,74 1,00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ew				
Water Level (0.33)Volume PurgedFlow RateFurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Eh / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)Diff (+/- 0.1)Femp (+/- 0.5)ColorDodorComments:Sumplied	gal mL/min NTU % mg/L MeV mS/cm° pH unit C° Visual Olfactory	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 9.44 13.9 Clear	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 clean	6.01 2.65 125 4,74 1.00 1.15 - 29.6 1.32 1.02 9.38 13.3 (/ew				
Water Level (0.33)Volume PurgedFlow RateFurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Eh / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)Del (+/- 0.1)Femp (+/- 0.5)ColorDdor	gal mL/min NTU % mg/L MeV mS/cm° pH unit C° Visual Olfactory	S-71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 9.44 13.8 Clear	S. 82 2.30 125 4. 22 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 Clear	6.01 2.65 125 4,74 1.00 1.15 -29.6 1.32 1.02 9.38 13.3 (/ea/				
Water Level (0.33)Volume PurgedFlow RateTurbidity (+/- 10%)Dissolved Oxygen (+/- 10%)Dissolved Oxygen (+/- 10%)Eh / ORP (+/- 10)Specific Conductivity (+/- 3%)Conductivity (+/- 3%)bH (+/- 0.1)Temp (+/- 0.5)ColorOdorComments:Sumplied	gal mL/min NTU % mg/L MeV mS/cm ^c pH unit C* Visual Olfactory	5.71 2.00 125 5.21 11.4 1.17 -20.2 1.33 1.04 4.44 13.8 Clear 255	5.82 2.30 125 4.92 11.2 1.16 - 28.0 1.32 1.04 9.35 13.6 clear	6.01 2.68 125 4,74 1.00 1.15 - 29.6 1.32 1.02 9.38 13.3 (/ea				

	Monit	oring Wel	I Purging	/ Sampli	ng Form			
Project Name and Number:			NCEL	1.0			520-	
roject Name and Number.		N	JAZED	IMaa	100	avu	2652	
Monitoring Well Number:		MW-LI	0	Date:		6/8/2	1	
Samplers:		Ma +	PM					
Sample Number:		MW-40	0600	32 (QA/QC	Collected?			
Purging / Sampling Method:		low	how	penp	mp	dedi c	ated 1	DPE
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well: V = Volume of Water in Well 3(V) = Target Purge Volume 	= C(3.1415	9)(0.5D) ² (7.4	8)	9.38 2" 5.01 4.37 0.71 2.13	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50	
			Conversion	n factors to	determine	V given C		
		D (inches)	1_inch	2 inch	2 inch	4 in als	C : 1	•
		V (gal / ft)	0.041	0.163	0.37	4-inch	6-incn	
Parameter	Units	1110 + 151			Readings		5	1
Time	24 hr	1050	1055	1100	1105	1110	1115	1120
Water Level (0.33)	feet	5.01	5.25	5.34	5.34	5.39	544	5.45
Volume Purged	gal	2105	.20	.40	.60	.80	1.00	1.20
Flow Rate	mL/min	- 4	216	216	210	211.	216	7110
Turbidity (+/- 10%)	NTU	239	85.8	10.1	4.81	8.64	0.93	0.91
Dissolved Oxygen (+/- 10%)	%	(e. 0	2.9	1.5	1.6	1.2	1.0	1.0
Dissolved Oxygen (+/- 10%)	mg/L	0.62	,31	0.16	0.17	0.12	11	.11
Eh / ORP (+/- 10)	MeV	-130.4	-78.4	-40.5	-33.6	-26.7	-25.7	-25.5
Specific Conductivity (+/- 3%)	mS/cm ^c	.443	.354	.309	.309	.303	1202	304
Conductivity (+/- 3%)	mS/cm	.327	.244	.229	.230	.725	,225	225
pH (+/- 0.1)	pH unit	4.98	6.78	619	10.69	6.70	1.70	10.70
Temp (+/- 0.5)	C°	11.4	12.4	11.8	11.6	11.5	11. (.	11.5
Color	Visual	munky	cieac	clear	lear	clear	CIECO	Cleare
Odor	Olfactory	NONE	None	NODE	NODE	None	None	Noor
Comments:	mple	€ IIL	10					
							Page \ of	1

Project Name and Number:								
		N	JUSEL	Im	ace	6061	5275	
Monitoring Well Number:		MW-1	455	Date:	(1812	21	
Samplers:			AD	+ PM				
					s dros distri			
Sample Number:	N	1w-450	0606	321QA/QC	C Collected?			_
Purging / Sampling Method:		low.	hav	penp	mp			
1. L = Well Depth: 2. D = Riser Diameter (I.D.): 3. W = Depth to Water: 4. C = Column of Water in Wel 5. V = Volume of Water in Wel 6. 3(V) = Target Purge Volume	l: l = C(3.14159	9)(0.5D) ² (7.4	8)	14.68 2" 4.75 9.93 1.62 4.86	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50	
			Conversior	n factors to	determine	/ given C		
		D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1
		V (gal / ft)	0.041	0.163	0.27	0.65	1.5	
Water Quality Readings Collec	ted Using Units	NTU + YSI	0.041	0.105	Readings			
Water Quality Readings Collec Parameter Time	ted Using Units 24 hr	NTU + YSI	0935	0940	Readings	0.03 /	0955	
Water Quality Readings Collec Parameter Time Water Level (0.33)	ted Using Units 24 hr feet	NTU + YSI	0935	0940	Readings 0945 7.00	0950 7.10	0955 7.16	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged	ted Using Units 24 hr feet gal	NTU + YSI	0935	0940	Readings 0945 7.00 .75	0.03 V 0950 7.10 1.00) 0955 7.16 1.25	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate	ted Using Units 24 hr feet gal mL/min	NTU + YSI 0930 41.75 	0935 5.50 .25 216	0940	Readings 0945 7.00 .75 216	0950 7.10 1.00 1.80	1 0955 7.16 1.25 180	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%)	ted Using Units 24 hr feet gal mL/min NTU	NTU + YSI 0930 41.75 	0935 5.50 .25 216 32.2	0940	Readings 0945 7.00 .75 216 29.6	0950 7.10 1.00 1.80 27.4) 7.16 1.25 180 26.8	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%)	ted Using Units 24 hr feet gal mL/min NTU %	NTU + YSI 0930 -1.75 -2.16 62.7 62.4	0935 5.50 .25 216 32.2 4.3	0940 6.61 .50 216 30.1 3.4	Readings 0945 7.00 .75 216 29.6 3.6	0950 7.10 1.00 180 27.4 3.5	/ 0955 7.16 1.25 180 26.8 3.6	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	ted Using Units 24 hr feet gal mL/min NTU % mg/L	NTU + YSI 0930 4.75 - 216 62.7 6.4 0.67	0935 5.50 .25 216 32.2 4.3 0.46	0940 6.61 .50 216 30.1 3.4 0.35	Readings 0945 7.00 .75 216 29.6 3.6 0.37	0950 7.10 1.00 180 27.4 3.5 0.37	/ 0955 7.16 1.25 180 26.8 3.6 .37	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (1/ 200)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV	$ \frac{0}{100} + \frac{100}{100} +$	0935 5.50 .25 216 32.2 4.3 0.46 -50.9	0940 6.61 .50 216 30.1 3.4 0.35 _57.0	Readings 0945 7.00 .75 216 29.6 3.6 0.37 -50.9	0950 7.10 1.00 1.80 27.4 3.5 0.37 -45.9	J 0955 7.16 1.25 180 26.8 3.6 .37 -42.0	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	$\frac{0930}{4.75}$ $\frac{1.75}{-2.16}$ $\frac{1.21}{0.67}$	0935 5.50 .25 216 32.2 4.3 0.46 -50.9 1.21	0940 6.61 .50 216 30.1 3.4 0.35 -57.0 1.21	Readings 0945 7.00 .75 216 29.6 3.6 0.37 -50.9 1.20	0950 7.10 1.00 180 27.4 3.5 0.37 -45.9 1.20	/ 0955 7.16 1.25 180 26.8 3.6 .37 -42.0 1.20	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	$\begin{array}{c} NTU + YSI \\ 0.930 \\ 4.75 \\ -216 \\ 62.7 \\ 6.4 \\ 0.67 \\ -50.9 \\ 1.21 \\ 0.93 \\ 7.00 \end{array}$	0935 5.50 .25 216 32.2 4.3 0.46 -50.9 1.21 0.93	0940 6.61 .50 216 30.1 3.4 0.35 -57.0 1.21 0.94		0950 7.10 1.00 180 27.4 3.5 0.37 -45.9 1.20 0.94	1 0955 7.16 1.25 180 26.8 3.6 .37 -42.0 1.20 0.94	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit	$\begin{array}{c} NTU + YSI \\ 0.930 \\ 4.75 \\ - \\ 2.16 \\ 6.75 \\ - \\ 2.16 \\ 0.93 \\ - \\ 7.09 \\ 1.21 \\ 0.93 \\ 7.00 \\ 1.21 \\ 0.93 \\ - \\ 7.00 \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ 0.93 \\ - \\ 1.21 \\ - \\ 1$	0935 5.50 .25 216 32.2 4.3 0.46 -50.9 1.21 0.93 7.00	0940 6.61 .50 216 30.1 3.4 0.35 -51.0 1.21 0.94 6.99	$ \begin{array}{c} Readings \\ 0945 \\ 7.00 \\ .75 \\ 216 \\ 29.6 \\ 3.6 \\ 0.37 \\ -50.9 \\ [.20 \\ 0.94 \\ (e.99 \\] 120 \\ 0.94 \\ (e.99 \\]] 120 \\ $	V950 7.10 1.00 180 27.4 3.5 0.37 -45.9 1.20 0.94 7.00	/ 0955 7.16 1.25 180 26.8 3.6 .37 -42.0 1.20 0.94 6.99	
Water Quality Readings Collec Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*]	$\frac{(gal + 16)}{(gal + 16)}$	0935 5.50 .25 216 32.2 4.3 0.46 -50.9 1.21 0.93 7.00 /3.2	0940 6.61 .50 216 30.1 3.4 0.35 -57.0 1.21 0.94 6.99 13.5	$\begin{array}{c} \textbf{Readings} \\ \hline 0.37 \\ \hline 7.00 \\ .77 \\ 2.16 \\ 29.6 \\ 3.6 \\ \hline 0.37 \\ -50.9 \\ 1.20 \\ 0.94 \\ 6.99 \\ 13.6 \\ \hline 13.6 \\ \hline \end{array}$	V 0950 7.10 1.00 180 27.4 3.5 0.37 -45.9 1.20 0.94 7.00 13.6	J 0955 7.16 1.25 180 26.8 3.6 .37 -42.0 1.20 0.94 6.99 13.6	

	Monite	oring Wel	l Purging	/ Sampli	ng Form			
Project Name and Number:		NI	SEG -	Ithac	۹	6061	5225	-
Monitoring Well Number:		MW-L	165	Date:	6	18/2	.1	
Samplers:		Mexin	dra (noide	n t	Pat	McH	ich
Sample Number:	٢	<u>4W-465</u>	ous	21 QA/QC	C Collected?	-		J
Purging / Sampling Method:		low fro	on peri	pmp				
 L = Well Depth: D = Riser Diameter (I.D.): W = Depth to Water: C = Column of Water in Well: V = Volume of Water in Well 3(V) = Target Purge Volume 	= C(3.14159	9)(0.5D) ² (7.4	8)	16.78 21 4.18 12.60 2.06 6.18	feet feet feet gal gal	D (inches) 1-inch 2-inch 3-inch 4-inch 6-inch	D (feet) 0.08 0.17 0.25 0.33 0.50	
		D (inches) V (gal / ft)	1-inch 0.041	2-inch 0.163	3-inch 0.37	4-inch 0.65	6-inch 1.5	
Water Quality Readings Collect	ed Using Units	NTU + YSI			Readings			
Water Quality Readings Collector Parameter Time	Units		0915	0820	Readings	/	1025	0900
Water Quality Readings Collect Parameter Time Water Level (0.33)	Units 24 hr	0810	0815	0820	Readings	0830	0835	0840
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged	Units 24 hr feet gal	NTU + YSI	0815 4.49	0820	Readings 0825 4.67	V 0830 4.68	0835	0840
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate	Units Units 24 hr feet gal mL/min	NTU + YSI	0815 4.49	0820 4.70 .30	Readings 0825 4.67 50	10830. 4.68 .95	0835 4.69 1.15	0840
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%)	Units Units 24 hr feet gal mL/min NTU	NTU + YSI 0 810 4.18 - 240 26,8	0815 4.49 .15 240	0820 4.70 .30 240	Readings 0825 4.67 .50 240 4.11	0830 4.68 .95 230	0835 4.69 1.15 230	0840
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%)	Units Units 24 hr feet gal mL/min NTU %	NTU + YSI 0 810 4.18 - 240 26.8	0815 4.49 15 240 18.4 29	0820 4.70 .30 240 13.6	Readings 0825 4.67 , 50 240 4.14	0830 4.68 .95 230 9.01	0835 4.69 1.15 230 8.57	0840 4.70 1.50 230 8.00
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	Units Units 24 hr feet gal mL/min NTU % mg/L	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63	0815 4.49 .15 240 18.4 2.9	0820 4.70 .30 240 13.6 2.3 0.24	Readings 0825 4.67 .50 240 4.14 2.0	/ 4.68 .95 230 9.01 1.8	0835 4.69 1.15 230 8.57 1.7	0840 4.70 1.50 230 8.00 1.8
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV	NTU + YSI 0 810 H.18 - 240 26.8 6.1 0.63 -120.5	0815 4.49 15 240 18.4 2.9 0.29	0820 4.70 30 240 13.6 2.3 0.24 119.8	Readings 9825 9.67 .50 240 9.14 2.0 .21	/ 4.68 .95 2.30 9.01 1.8 0.18	0835 4.69 1.15 230 8.57 1.7 .18	0840 4.70 1.50 230 8.00 1.8 .18
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 0 810 H.18 - 240 26.8 6.1 0.63 -120.5 78	0815 4.49 15 240 18.4 2.9 0.29 - 141.5	0820 4.70 30 240 13.6 2.3 0.24 -149.8	Readings 9825 9.67 , 50 240 9.14 2.0 .21 -151.6	0830 4.68 .95 230 9.01 1.8 0.18 -157.2	0835 4.69 1.15 230 8.57 1.7 .18 -153.5	0840 4.70 1.50 230 8.00 1.8 -155.
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63 -120.5 788	0815 4.49 15 240 18.4 2.9 0.29 -141.5 0.81	0820 4.70 30 240 13.6 2.3 0.24 -149.8 0.83	Readings 0825 4.67 50 240 4.14 2.0 .21 -154.6 0.83	1.68 4.68 .95 230 9.01 1.8 0.18 -157.2 0.84	0835 4.69 1.15 230 8.57 1.7 .18 -153.5 0.84	0840 4.70 1.50 230 8.00 1.9 .18 -155. 0.8L
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63 -120.5 788 0.41	0815 4.49 .15 240 18.4 2.9 0.29 -141.5 0.81 0.63 7 10	0820 4.70 .30 240 13.6 2.3 0.24 -149.8 0.83 0.65	Readings 0825 4.67 , 50 240 4.14 2.0 .21 -152,6 0.83 0.64	/ 4.68 .95 230 9.01 1.8 0.18 -157.2 0.84 0.66	0835 4.68 1.15 230 8.57 1.7 .18 -153.5 0.84 0.66	0840 4.70 1.50 230 8.00 1.8 .18 -155. 0.8L 0.64
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*]	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63 -120.5 788 0.61 7.11 12.2	0815 4.49 15 240 18.4 2.9 0.29 -141.5 0.81 0.63 7.10 13.4	0820 4.70 30 240 13.6 2.3 0.24 -149.8 0.83 0.65 7.09	Readings 9825 9.67 , 50 240 9.14 2.0 .21 -1521.6 0.83 0.64 7.09	0830 4.68 .95 230 9.01 1.8 0.18 -157.2 0.84 0.66 7.08	0835 4.69 1.15 230 8.57 1.7 .18 -153.5 0.84 0.66 7.09	0840 4.70 1.50 230 8.00 1.8 -155. 0.8L 0.66 7.0
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [°] Visual	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63 -120.5 788 0.41 7.11 13.3 (160)	0815 4.49 .15 240 18.4 2.9 0.29 -141.5 0.81 0.63 7.10 13.4	0820 4.70 30 240 13.6 2.3 0.24 -149.8 0.83 0.65 7.09 13.4	Readings 0825 4.67 50 240 4.14 2.0 .21 -154.6 0.83 0.64 7.09 13.4 (150)	10830 4.68 .95 230 9.01 1.8 0.18 -157.2 0.84 0.66 7.08 13.6	0835 4.69 1.15 230 8.57 1.7 .18 -153.5 0.84 0.66 7.09 12.8	0840 4.70 1.50 230 8.00 1.9 -155. 0.8L 0.8L 0.66 7.0 13.9
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [°] Visual Olfactory	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63 -120.5 788 0.41 7.11 13.3 CIECIT NODE	0815 4.49 .15 240 18.4 2.9 0.29 -141.5 0.81 0.63 7.10 13.4 cirar	0820 4.70 .30 240 13.6 2.3 0.24 -149.8 0.83 0.65 7.09 13.4 Clear	Readings 0825 4.67 .50 240 4.14 2.0 .21 -1521.6 0.83 0.64 7.09 13.4 Clear NOVE	/ 4.68 .95 230 9.01 1.8 0.18 -157.2 0.84 0.68 7.08 13.6 (lear NOC	0835 4.68 1.15 230 8.57 1.7 .18 -153.5 0.84 0.66 7.08 12.8 clear	0840 4.70 1.50 230 8.00 1.8 .18 -155. 0.8L 0.66 7.0 13.9 CIECU
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [°] Visual Olfactory	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63 -120.5 788 0.41 7.11 13.3 CIECIT NONE	0815 4.49 15 240 18.4 2.9 0.29 -141.5 0.81 0.63 7.10 13.4 cirar None	0820 4.70 30 240 13.6 2.3 0.24 -149.8 0.83 0.65 7.09 13.4 Clear None	Readings 0825 4.67 50 240 4.14 2.0 .21 -154.6 0.83 0.64 7.09 13.4 Clear None	10830. 4.68 .95 230 9.01 1.8 0.18 -157.2 0.84 0.66 7.08 13.6 (11000) (1100)	0835 4.69 1.15 230 8.57 1.7 .18 -153.5 0.84 0.66 7.09 12.8 clear NODE	0840 4.70 1.50 230 8.00 1.9 -155. 0.8L 0.66 7.0 13.9 (1000 13.9
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1) Temp (+/- 0.5) Color Odor Comments:	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual Olfactory	NTU + YSI 0 810 4.18 - 240 26.8 6.1 0.63 -120.5 788 0.41 7.11 13.3 CIECIT NONE	0815 4.49 .15 240 18.4 2.9 0.29 -141.5 0.81 0.63 7.10 13.4 cirar None	0820 4.70 .30 240 13.6 2.3 0.24 -149.8 0.83 0.65 7.09 13.4 Clear None	Readings 0825 4.67 , 50 240 4.14 2.0 .21 -1521.6 0.83 0.64 7.09 13.4 Clear None	1.68 4.68 .95 230 9.01 1.8 0.18 -157.2 0.84 0.66 7.08 13.6 (lear NONE	0835 4.69 1.15 230 8.57 1.7 .18 -153.5 0.84 0.66 7.09 13.8 Clear NODE	0840 4.70 1.50 230 8.00 1.8 -155. 0.8L 0.66 7.0 13.9 CIECY No

Project Name and Number: Monitoring Well Number: Samplers: Sample Number: Purging / Sampling Method: 1. L = Well Depth: 2. D = Riser Diameter (LD):	μ	р Ny Mw-47 Pahrek w-475	SEG - S Moltyr	Date:	- 600 6/8/	6(522) 121	S	
Monitoring Well Number: Samplers: Sample Number: Purging / Sampling Method: 1. L = Well Depth: 2. D = Riser Diameter (LD):	μ	MW-47 Patrick W-475	S Maltyr	_ Date:	6/8/	21		
Samplers: Sample Number: Purging / Sampling Method: 1. L = Well Depth: 2. D = Biser Diameter (LD):	μ	Patrick	Meltyr	~			_	
Sample Number: Purging / Sampling Method: 1. L = Well Depth: 2. D = Biser Diameter (LD):	μ	w-475						
Purging / Sampling Method: 1. L = Well Depth: 2. D = Biser Diameter (LD):			0 6087	QA/QC	Collected?	/	/	
1. L = Well Depth: 2. D = Riser Diameter (LD):		perri	Jup w	1 dedicat	ed tub	2.		
1. $L = Weil Depth:$ 2. $D = Riser Diameter (LD)$				121.64	fact	D (inchos)	D (feet)	1
				8.11	foot	1_inch		
3. $W = Denth to Water:$				6.0	feet	2-inch	0.08	
4. C = Column of Water in Wall) 0 0 (1 (L	feet	3-inch	0.1/	
5. V = Volume of Water in Well	= (13 1/150)/(0 5D) ² /7 /	8)	1.6	gal	4-inch	0.23	
6. 3(V) - Target Purge Volume		/(0.50) (7.4	0]	11 1 8	Bai	6-inch	0.55	1
o. Stal - raiger ruige volume				7.68	6 ⁰¹		1 0.00	
			Conversio	n factors to (determine	/ given C		
				0		N		
		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 Collect Parameter	ted Using	NTU + YSI		/	Jery Poo Readings	r Recharg	y a	•
Water Quality Readings Collect Parameter Time	ted Using Units	NTU + YSI	1710	1310	Jery Poo Readings	r Recing	1370	1730
Water Quality Readings Collect Parameter Time Water Level (0.33)	Units	NTU + YSI	1310	1315	Jerry Poo Readings 1320 8.82	r Recing 1325 9.08	1330 9.35	1335
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged	ted Using Units 24 hr feet gal	NTU + YSI 1305 5,08	1310 6.52 0.25	1315 8.30	Jerry Poo Readings 1320 8.82 0.75	1325 9.08	1330 9.35	1335 9.61 1.23
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate	Units Units 24 hr feet gal mL/min	NTU + YSI 1305 5,08 6 150	1310 6.52 0.25 150	1315 8.30 0.50 100	Nerry Poo Readings 1320 8.82 0.75 75	1325 9.08 1.00 50	1330 9.35 1.10 50	1335 9.61 1.22 5 0
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Furbidity (+/- 10%)	ted Using Units 24 hr feet gal mL/min NTU	NTU + YSI 1305 5,08 6 150 31.0	1310 6.52 0.25 150 56.8	1315 8.30 0.50 100 40,3	Jerry Poo Readings 1320 8.82 0.75 75 54-3	r Recing 1325 9.08 [.00 50 72.6	1330 9.35 1.10 50 76.4	1335 9.61 1.22 50 78
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Furbidity (+/- 10%) Dissolved Oxygen (+/- 10%)	ted Using Units 24 hr feet gal mL/min NTU %	NTU + YSI 1305 5,08 6 150 31.0 0,4	1310 6.52 0.25 150 56.8 0.3	1315 8.30 0.50 100 40:3 0:3	Jerry Poo Readings 1320 8.82 0.75 75 75 54-3 0.2	1325 9.08 1.00 50 72.6	1330 9.35 1.10 50 76.4 0.1	1335 9.61 1.20 50 78. 0.1
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Furbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%)	ted Using Units 24 hr feet gal mL/min NTU % mg/L	NTU + YSI 1305 5,08 6 150 31.0 0.4 0.04	1310 6.52 0.25 150 56.8 0.3 0.03	1315 8.30 0.50 [00 40:3 0.2 0.2	Serve Poor Readings 1320 8.82 0.75 75 54-3 0.2 0.02	r Recing 1325 9.08 [.00 30 72.6 0.8 0.02	1330 9.35 1.10 58 76.4 0.1	1335 9.61 1.20 50 78. 0.1 0.01
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV	NTU + YSI 1305 5,08 6 150 31.0 0.44 0.044 - 113.8	1310 6.52 0.25 150 56.8 0.3 0.03 ~122.5	1315 8.30 0.50 100 40.3 0.2 0.2 0.2 2.29.7	<i>Jerry Poo</i> <u>Readings</u> 1320 8.82 0.75 75 54-3 0.2 0.02 -133.3	1325 9.08 1.00 30 72.6 0.8 0.02 - 137.5	1330 9.35 1.10 50 76.4 0.1 0.1 0.1	1335 9.61 1.22 80 78. 0.1 0.01 5-144.
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c	NTU + YSI 1305 5,08 6 150 31.0 0.4 0.04 - 113.8 0.86	1310 6.52 0.25 150 56.8 0.3 0.03 ~122.5 0.84	1315 8.30 0.50 100 40:3 0.2 0.02 ~ 129.7 0.87	Nerry Poo Readings 1320 8.82 0.75 75 54-3 0.2 0.02 -133.3 0.87	1325 9.08 1.00 50 72.6 0.8 0.02 - 137.5 0.92	1330 9.35 1.10 50 76.4 0.1 0.01 0.01 0.01 0.93	1335 9.61 1.22 80 78 0.01 5.01 5.144 0.53
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm	NTU + YSI 1305 5,08 6 150 31.0 0.4 0.04 - 113.8 6.86 0.62	1310 6.52 0.25 150 56.8 0.3 0.03 -122.5 0.8 7 0.65	1315 8.30 0.50 100 40:3 0.2 0.02 ~ 129.7 0.87 0.68	Serve Proce Readings 1320 8.82 0.75 75 54-3 0.2 0.02 -133.3 0.87 0.70	r Recing 1325 9.08 1.00 50 72.6 0.8 0.02 - 137.5 0.92 0.77	1330 9.35 1.10 50 76.4 0.1 0.1 0.1 0.1 0.43 0.75	1335 9.61 1.22 5 0 78. 0.1 0.01 5 - 144. 0.53 0.75
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) pH (+/- 0.1)	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit	NTU + YSI 1305 5,08 6 150 31.0 0.04 0.04 - 113.8 6.86 0.67 6.82	1310 6.52 0.25 150 56.8 0.3 0.03 ~122.5 0.8 7 0.65 6.74	1315 8.30 0.50 100 40:3 0.2 0.02 ~ 129.7 0.87 0.68 6.72	Serve processor 1320 8.82 0.75 75 54-3 0.2 0.62 -133.3 0.87 0.70	r Recing 1325 9.08 1.00 30 72.6 0.8 0.02 - 137.5 0.92 0.77 6.78	1330 9.35 1.10 50 76.4 0.1 • 0.01 • 0.01 • 0.01 • 0.01 • 0.01 • 0.75 • 0.75	1335 9.61 1.20 50 78 0.1 0.01 5-144 0.53 0.75 6.75
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) DH (+/- 0.1) Femp (+/- 0.5)	Units Units 24 hr feet gal mL/min NTU % mg/L MeV mS/cm ^c mS/cm pH unit C [*]	NTU + YSI 1305 5,08 6 150 31.0 0.44 0.044 - 113.8 0.67 6.82 13.3	1310 6.52 0.25 150 56.8 0.3 0.03 ~122.5 0.65 6.74 13.0	1315 8.30 0.50 100 40.3 0.2 0.2 - 129.7 0.87 0.68 6.72 13.3	Serve Poo Readings 1320 8.82 0.75 75 54-3 0.2 0.02 -133.3 0.87 0.70 6.70 6.72 14.6	1325 9.08 1.00 50 72.6 0.8 0.02 - 137.5 0.92 0.77 6.78 16.5	1330 9.35 1.10 50 76.4 0.1 0.01 0.43 0.75 6.75 16.2	1335 9.61 1.22 50 78. 0.1 0.01 5.144. 0.53 0.75 6.79 15.8
Water Quality Readings Collect Parameter Time Water Level (0.33) Volume Purged Flow Rate Turbidity (+/- 10%) Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Eh / ORP (+/- 10) Specific Conductivity (+/- 3%) Conductivity (+/- 3%) DH (+/- 0.1) Temp (+/- 0.5) Color	ted Using Units 24 hr feet gal mL/min NTU % mg/L MeV mg/L MeV mS/cm ^c mS/cm pH unit C [*] Visual	NTU + YSI 1305 5,08 6 150 31.0 0.4 0.04 - 113.8 0.67 6.82 13.3 Clear	1310 6.52 0.25 150 56.8 0.3 0.03 ~122.5 0.65 6.74 13.0 Clew,	1315 8.30 0.50 100 40:3 0.2 0.2 0.2 0.2 0.57 0.87 0.68 6.72 13.3 C/cCith	Serry Poo Readings 1320 8.82 0.75 75 54-3 0.2 0.02 -133.3 0.87 0.70 6.72 14.6 Cleorsh	1325 9.08 1.00 50 72.6 0.8 0.02 - 137.5 0.92 0.77 6.78 16.5 (lew.34	1330 9.35 1.10 50 76.4 0.1 0.1 0.01 0.43 0.75 6.75 16.2 cleary	1335 9.61 1.22 50 78. 0.1 0.01 5-144. 0.53 0.75 6.79 15.8 c/erris
	Monit	oring Wel	l Purging	/ Sampli	ng Form			
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Project Name and Number:		NYS	20 - I	therca -	- 600	615225		
Monitoring Well Number:		MW-US	75	Date:	6181	[2]		
Samplers:		Patrick	Mdty	L				
ample Number:	MU	-485	06082	QA/QC	C Collected?			
Purging / Sampling Method:		persi pu	mp w/d	edurated	tabz.			_
. L = Well Depth: . D = Riser Diameter (I.D.): . W = Depth to Water: . C = Column of Water in Well:				17.2 0.17 4.36 8.34	feet feet feet	D (inches) 1-inch 2-inch 3-inch	D (feet) 0.08 0.17 0.25	•
5. V = Volume of Water in Well = 5. 3(V) = Target Purge Volume	= C(3.14159	9)(0.5D)²(7.4	8)	4.32	gal	4-inch 6-inch	0.33	
			Conversior	factors to	determine	V given C		
		D (inches)	1-inch	Zinch	3_inch	4-inch	6-inch	1
		V (gal / ft)	0.041	0.163	0.37	0.65	1.5	
'arameter 'ime	Units 24 hr	50113S	1140	1145	Readings	1155	1200	1205
Vater Level (0.33)	feet	4.36	4.37	4.39	4.41	41.43	4.48	4.51
olume Purged	gal	4	0.25	0.75	1.00	120	Ricc	2.20
low Rate	mL/min	100	200	200	200	(00	200	Coc
urbidity (+/- 10%)	NIU	47.1	5+1	14.1	157	40.7	10.4	10.2
Dissolved Oxygen (+/- 10%)	%	23.9	15.5	10.0	5-7	811	8.)	0.5
Dissolved Oxygen (+/- 10%)	mg/L	6.91	1.65	120.5	0.85	-1767	0.02	0.80
(+/-10)	Ivie v	-156.2	7.11	3.62	710	27.	-130. 1	7.20
pecific Conductivity (+/- 3%)	mS/cm	7.44	7.95	7.06	214	2,6	3.88	2.57
$H(\pm 1, 0, 1)$	mLI unit	6.17	6.75	9.60	940	8.44	0.26	800
$rac{+}{-}0.1$		4.8)	7,16	1.70	12	17.0	16 \$	168
Color	Visual	14.9	1 lecting	1 low dh	Clesth	desta	16.0	ller
)dor	Olfactory	(leavis	Crewert	[Marter	Chang		Cito	
comments: Rung on	C II	35				τ.		
·No odo!	of Sh-	~~~			1005	E	letty	
. /	\sim /	11 1	and to	clean	YSL	Imme)	

Project Name and Number: Monitoring Well Number:		ANIC		-11		1	0
Aonitoring Well Number:		1/1/2	6 - 1	thate -		6061	15 2 2 S
		MW - 48	'5	Date:	6/3	3/21	
amplers:		PM					
ample Number:	Mus -	485 06	0821	0A/00	Collected?		
urging / Sampling Method:		peri p	mp a)	dedscut	er tal	eV	
L = Well Depth:				132	feet	D (inches)	D (feet)
. D = Riser Diameter (I.D.):				0.17	feet	1-inch	0.08
. W = Depth to Water:				4.36	feet	2-inch	0.17
. C = Column of Water in We	II:			8.84	feet	3-inch	0.25
. V = Volume of Water in We	ll = C(3.14159)(0.5D) ² (7.48	;)	1.44	gal	4-inch	0.33
. 3(V) = Target Purge Volume	2			4.32	gal	6-inch	0.50
			Conversio	n factors to	determine	V given C	
		· · · · · ·		A			1
		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
arameter	Units 24 hr	V		r	Readings	<u> </u>	1
Water Level (0.33)	feet	1262					a 1 maar
/olume Purged	gal	2.00					
Yow Rate	ml /min	2.00					
$\frac{10\%}{10\%}$ (+/- 10%)	NTU	98	,				
Dissolved Oxygen (+/- 10%)	0/0	(DAR)					
	mg/I	72					
)issolved Oxygen (+/- 10%)		-17E 1					
Dissolved Oxygen (+/- 10%)	MeV	19.1			·	-	
Dissolved Oxygen (+/- 10%) h / ORP (+/- 10) pecific Conductivity (+/- 3%)	MeV mS/cm ^c	2 121					
Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) h / ORP (+/- 10) pecific Conductivity (+/- 3%) conductivity (+/- 3%)	MeV mS/cm ^c	3.41					
Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Ch / ORP (+/- 10) pecific Conductivity (+/- 3%) Conductivity (+/- 3%) H (+/- 0 1)	MeV mS/cm ^c mS/cm	3.41 3.32 841					
Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Ch / ORP (+/- 10) Dispecific Conductivity (+/- 3%) Conductivity (+/- 3%) H (+/- 0.1) Comp (+/- 0.5)	MeV mS/cm ^c mS/cm pH unit	3.41 3.32 8.41					
Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Ch / ORP (+/- 10) Dispecific Conductivity (+/- 3%) Conductivity (+/- 3%) H (+/- 0.1) Comp (+/- 0.5) Color	MeV mS/cm ^c mS/cm pH unit C [*]	3.41 3.32 8.41 17.0					
Dissolved Oxygen (+/- 10%) Dissolved Oxygen (+/- 10%) Ch / ORP (+/- 10) Dispecific Conductivity (+/- 3%) Conductivity (+/- 3%) H (+/- 0.1) Comp (+/- 0.5) Color	MeV mS/cm ^c mS/cm pH unit C [*]	3.41 3.32 8.41 1.7.0					

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Appendix B – Analytical Laboratory Reports

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Appendix C - Data Usability Summary Report

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Prepared for: NYSEG Binghamton, NY Prepared by: AECOM Pittsburgh, PA 60615225.5 June 2021

June 23, 2021

Data Usability Summary Report

NYSEG/Ithaca Court Street Former MGP Site Groundwater Sampling Event Eurofins Environment Testing America Laboratory Data June 2021 Final



Prepared for: NYSEG Binghamton, NY Prepared by: AECOM Pittsburgh, PA 60615225.5 June 2021

Data Usability Summary Report

NYSEG/Ithaca Court Street Former MGP Site Groundwater Sampling Event Eurofins Environment Testing America Laboratory Data June 2021 Final

Sugar J. Hafone

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Palta Part

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Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

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Executive Summary

Overview

Data validation was performed by Gregory A. Malzone of AECOM-Pittsburgh on three data packages comprised of three 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 June 8-10, 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) and Trihalomethanes (THMs) Bromoform, Chloroform, Chlorodibromomethane, and Dichlorobromomethane by USEPA SW-846 Method 8260C
- Polynuclear Aromatic Hydrocarbons (PAHs) by USEPA SW-846 Method 8270D Low-Level and USEPA SW-846 Method 8270E 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 National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005, November 2020 and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006, November 2020, 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 three SDGs 480-185758-1, 480-185822-1, and 480-185894-1. Table 1 provides a sample submittal list with the field IDs cross-referenced with the ETAL-Buffalo IDs.

Field ID	Laboratory ID	QC	Matrix	Date Sampled
MW-46S 060821	480-185758-1		Groundwater	06/08/21 08:50
MW-33S 060821	480-185758-2		Groundwater	06/08/21 08:55
MW-45S 060821	480-185758-3		Groundwater	06/08/21 10:15
MW-22S 060821	480-185758-4	MS/MSD	Groundwater	06/08/21 10:30
MW-40 060821	480-185758-5		Groundwater	06/08/21 11:40
MW-48S 060821	480-185758-6		Groundwater	06/08/21 12:10
MW-31S 060821	480-185758-7		Groundwater	06/08/21 13:30
MW-47S 060821	480-185758-8		Groundwater	06/08/21 13:35
DUP 060821	480-185758-9	MW-31S 060821	Groundwater (QC)	06/08/21 00:00
TRIP BLANK 060821	480-185758-10	trip blank	Aqueous (QC)	06/08/21 00:00
MW-23S 060921	480-185822-1		Groundwater	06/09/21 08:40
MW-C16 060921	480-185822-2		Groundwater	06/09/21 09:30
MW-C11 060921	480-185822-3		Groundwater	06/09/21 10:40
MW-25S 060921	480-185822-4		Groundwater	06/09/21 10:05
MW-28S 060921	480-185822-5		Groundwater	06/09/21 12:15
MW-24S 060921	480-185822-6		Groundwater	06/09/21 12:35
TRIP BLANK 060921	480-185822-7	trip blank	Aqueous (QC)	06/09/21 00:00
MW-C12 061021	480-185894-1		Groundwater	06/10/21 09:00
EQ BLANK 061021	480-185894-2	equipment blank	Aqueous (QC)	06/10/21 09:10
TRIP BLANK 061021	480-185894-3	trip blank	Aqueous (QC)	06/10/21 00:00

Table 1 - Sample Submittals – NYSEG/Ithaca Former MGP Groundwater

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 BTEX and THMs

480-185758-1

<u>Matrix Spike Recoveries:</u> Sample MW-22S-060821 was designated in the field to be processed as a quality control sample, that is, as the MS/MSD. The MW-22S-060821 MS and MSD recoveries for ethylbenzene, toluene, and total xylenes were greater than the upper advisory limits. The MW-22S-060821 ethylbenzene, toluene, and total xylenes results were non-detect. No data qualification was required.

<u>Reporting and Detection Limits</u>: Sample MW-46S-060821 required analysis at an initial dilution to bring the target compound concentration(s) into the calibration range and/or minimalize non-target matrix interference. 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.

480-185822-1

<u>Reporting and Detection Limits:</u> Samples MW-23S-060921, MW-C11-060921, and MW-C16-060921 required analysis at an initial dilution to bring the target compound concentration(s) into the calibration range and/or minimalize non-target matrix interference. The initial dilution elevated the RLs and MDLs. The surrogate recoveries were within the quality control limits. No data qualifications were required.

480-185894-1

No data quality issues were noted. No data qualifications were required.

2.0 Polynuclear Aromatic Hydrocarbons

480-185758-1

<u>Blank Contamination</u>: Phenanthrene was detected in the low-level method blank MB 480-584784/1-A at an estimated concentration of 0.0912 J µg/L. The phenanthrene results for associated samples MW-22S-060821, MW-31S-060821, MW-33S-060821, MW-40-060821, MW-45S-060821, and DUP were estimated to be less than the RL and were qualified "U," as undetected at the RL, because of laboratory contamination. The phenanthrene results for associated samples MW-46S-060821, MW-47S-060821, and MW-48S-060821 were non-detect or greater than five times the blank concentration and did not require qualification.

<u>Calibrations:</u> The SIM continuing calibration verification (CCV) percent difference for benzo(a)anthracene was less than the lower method specification limit of -20% on 06/13/21 at 15:42 on instrument CBNAMS9. The positive and non-detect benzo(a)anthracene results for associated samples MW-46S-060821, MW-33S-060821, MW-45S-060821, MW-22S-060821, and MW-40-060821 were qualified "J/UJ," as estimates, because of low instrument bias.

The SIM CCV percent differences for benzo(g,h,i)perylene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were greater than the upper method specification limit of 20% on 06/13/21 at 116:23 on instrument CBNAMS13. The benzo(g,h,i)perylene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene results for associated samples MW-48S-060821, MW-31S-060821, MW-47S-060821, and DUP- 060821 were non-detect and did not require qualification.

<u>Surrogate Recoveries:</u> The GC/MS SIM nitrobenzene and 2-fluorobiphenyl surrogate recoveries for sample MW-33S-060821 were greater than the upper quality control limits. All PAH results for sample MW-33S-060821 were non-detect and did not require qualification.

480-185822-1

Blank Contamination: Phenanthrene was detected in the low-level method blank MB 480-585079/1-A at an estimated concentration of 0.0897 J μg/L. The phenanthrene results for associated samples MW-24S-060921, MW-28S-060921, MW-25S-060921, and MW-C16-060921 were estimated to be less than the RL and were qualified "U," as undetected at the RL, because of laboratory contamination. The phenanthrene results for associated samples MW-C11-060921 and MW-23S-060921 were non-detect or greater than five times the blank concentration and did not require qualification.

<u>Calibrations:</u> The SIM CCV percent difference for benzo(a)anthracene was less than the lower method specification limit of -20% on 06/13/21 at 15:42 on instrument CBNAMS9. The positive and non-detect benzo(a)anthracene results for associated samples MW-24S-060921, MW-28S-060921, MW-25S-060921, MW-C16-060921, MW-C16-060921 and MW-23S-060921 were qualified "J/UJ," as estimates, because of low instrument bias.

<u>Reporting and Detection Limits</u>: Low-level SVOC samples MW-23S-060921, MW-C11-060921, and MW-C16-060921 required analysis at an initial dilution to minimize foaming upon purging and/or minimize non-target matrix interference. The initial dilution elevated the RLs and MDLs. The surrogate recoveries were within the quality control limits. No data qualifications were required.

480-185894-1

<u>Blank Contamination</u>: Phenanthrene was detected in the low-level method blank MB 480-585079/1-A at an estimated concentration of 0.0897 J μ g/L. The phenanthrene results for associated samples MW-C12-061021 and EQ BLANK-061021 were estimated to be less than the RL and were qualified "U," as undetected at the RL, because of laboratory contamination.

AECOM

<u>Reporting and Detection Limits</u>: Low-level SVOC sample MW-C12-061021 required analysis at an initial dilution to bring the target compound concentration(s) into the calibration range and minimalize non-target matrix interference. The initial dilution elevated the RLs and MDLs. The surrogate recoveries were within the quality control limits. No data qualifications were required

3.0 Methane

480-185758-1

<u>Dilutions:</u> Samples MW-46S-060821, MW-45S-060821, MW-47S-060821, and MW-48S-060821 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.

480-185822-1

<u>Dilutions:</u> Samples MW-23S-060921, MW-C11-060921, and MW-28S-060921 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.

480-185894-1

<u>Dilutions:</u> Sample MW-C12-061221 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.

4.0 Total Iron

All SDGs

No data quality issues were noted. No data qualifications were required.

4-1

5.0 General Chemistry

All SDGs

<u>Holding Time:</u> 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.

480-185758-1

<u>Blank Contamination</u>: Total cyanide was detected in method blanks MB 480-584830/1-A and MB 480-585039/1-A at concentrations estimated to be less than the reporting limits. The total cyanide results for associated samples MW-33S-060821, MW-40-060821, MW-45S-060821, and MW-48S-060821 were estimated to be less than the reporting limits and were qualified "U," as undetected at the reporting limit, because of laboratory contamination. The total cyanide results for associated samples MW-22S-060821, MW-46S-060821, and MW-47S-060821 were greater than or equal to the reporting limit, but less than ten times the blank concentration and were qualified "J/J+," as biased high, because of laboratory contamination. The total cyanide results for associated samples MW-31S-060821 and DUP-060821were non-detect and did not require qualification.

Several alkalinity method blanks and continuing calibration blanks had total alkalinity at concentrations estimated to be less than the reporting limits. All associated total alkalinity results were greater than the reporting limits and greater than ten times the blank levels. No data qualifications were required.

<u>Matrix Spike Recoveries</u>: The ammonia spikes added to MW-46S-060821 MS and MW-48S-060821 MS were less than 25% of the original sample results. Advisory limits did not apply. No data qualification was required.

The MW-22S-060821 MS/MSD total cyanide recoveries were less than 30%. The RPD between the MS and MSD recovery was greater than the maximum advisory limit. The positive total cyanide result for sample MW-22S-060821 was qualified "J," as an estimated concentration, because of matrix effects and/or sample heterogeneity, and laboratory contamination issues.

The MW-40-060821 MS total cyanide recovery was less than 30%. In addition, the associated continuing calibration standard recovery was greater than the upper quality control limit, and the associated method blank had a positive result for total cyanide. The positive result for MW-40-060821 was qualified "U," as undetected at the reporting limit, because of laboratory contamination. No further qualification was required.

480-185822-1

<u>Blank Contamination</u>: Ammonia was detected in the continuing calibration blank analyzed on 06/10/21 on 08:44 at a concentration estimated to be less than the reporting limit. The ammonia results for associated samples MW-23S-060921, MW-C16-060921, MW-C11-060921, and MW-25S-060921 were non-detect or greater than ten times the blank concentration. No data qualification was required.

Several alkalinity continuing calibration blanks had total alkalinity at concentrations estimated to be less than the reporting limits. All associated total alkalinity results were greater than the reporting limits and greater than ten times the blank levels. No data qualifications were required.

<u>Matrix Spike Recoveries</u>: The MW-C16-060921 MS total cyanide recovery was less than the lower advisory limit at 55%. The positive total cyanide result for sample MW-C16-060921 was qualified "J," as an estimated concentration, because of matrix effects and/or sample heterogeneity.

AECOM

<u>Laboratory Duplicate Precision</u>: A duplicate analysis was performed on sample MW-23S-060921. The results were less than five times the RL, and the absolute difference between the original and duplicate result was less than the RL. Variation of this magnitude is acceptable. No data qualification was required.

480-185894-1

<u>Blank Contamination:</u> Total cyanide was detected in equipment blank EQ BLANK at a concentration estimated to be less than the reporting limit. The total cyanide result for associated sample MW-C12-061021 was greater than reporting limit, but less than ten times the blank concentration and was qualified "J+," as biased high, because of ambient contamination.

The alkalinity continuing calibration blank analyzed on 06/11/21 at 08:17 had total alkalinity at a concentration estimated to be less than the reporting limit. The total alkalinity result for associated sample MW-C12-061021 was greater than the reporting limit and greater than ten times the blank level. No data qualification was required.

The ammonia method blank and 06/14/21 continuing calibration blanks had ammonia at concentrations estimated to be less than the reporting limits. The ammonia result for associated sample MW-C12-061021 was greater than the reporting limit and greater than ten times the highest associated blank level. No data qualification was required.

<u>Matrix Spike Recoveries</u>: The alkalinity spike added to MW-C12-061021 MS was less than 25% of the original sample result. Advisory limits did not apply. No data qualification was required.

6.0 Field Duplicate Precision

A field duplicate sample was collected at MW-31S-060821. 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 \leq 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 \leq 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-31S	DUP	Abs. Diff.	RPD (%)	QUALs
AI	l parent a	nd field duplicate re	sults were non-dete	ect.		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.

SW-846 8260C THMs were not assigned to the field duplicate, MS/MSDs, and trip blanks. Only SW-846 8260C BTEX were assigned to the to the field duplicate, MS/MSDs, and trip blanks. Samples for dissolved gases, and general chemistry (except for total cyanide) were not collected for the field duplicate.

<u>Data Reporting</u>: 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 unless negated in response to blank contamination. Sample results reported between the MDL and RL are usable as estimated values with an unknown directional bias.

<u>Sample Custody:</u> 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 custody was followed from field to laboratory with the following exceptions.

- For SDG 480-185758-1, the chain of custody did not include a sample date and time for the trip blank and 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 trip blank and field duplicate date and time to be "06/08/21" and "00:00" on the chain of custody.
- For SDG 480-185822-1, the chain of custody did not include a sample date and time for the trip blank associated with the 6/9/21 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 date and time to be "06/09/21" and "00:00" on the chain of custody.
- For SDG 480-185894-1, the chain of custody did not include a sample date and time for the trip blank associated with the 6/10/21 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 "06/10/21" 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: NYSEG - Former MGP Site - Ithaca, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-185758-1	MW-46S 060821	Water	06/08/21 08:50	06/09/21 08:00
480-185758-2	MW-33S 060821	Water	06/08/21 08:55	06/09/21 08:00
480-185758-3	MW-45S 060821	Water	06/08/21 10:15	06/09/21 08:00
480-185758-4	MW-22S 060821	Water	06/08/21 10:30	06/09/21 08:00
480-185758-5	MW-40 060821	Water	06/08/21 11:40	06/09/21 08:00
480-185758-6	MW-48S 060821	Water	06/08/21 12:10	06/09/21 08:00
480-185758-7	MW-31S 060821	Water	06/08/21 13:30	06/09/21 08:00
480-185758-8	MW-47S 060821	Water	06/08/21 13:35	06/09/21 08:00
480-185758-9	DUP	Water	06/08/21 00:00	06/09/21 08:00
480-185758-10	TRIP BLANK	Water	06/08/21 00:00	06/09/21 08:00

Client Sample ID: MW-46S 060821 Date Collected: 06/08/21 08:50 Date Received: 06/09/21 08:00

Lab Sample ID: 480-185758-1 Matrix: Water

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1200		20	8.2	ug/L			06/10/21 00:52	20
Bromoform	ND		20	5.2	ug/L			06/10/21 00:52	20
Chlorodibromomethane	ND		20	6.4	ug/L			06/10/21 00:52	20
Chloroform	ND		20	6.8	ug/L			06/10/21 00:52	20
Dichlorobromomethane	ND		20	7.8	ug/L			06/10/21 00:52	20
Ethylbenzene	1200		20	15	ug/L			06/10/21 00:52	20
Toluene	65		20	10	ug/L			06/10/21 00:52	20
Xylenes, Total	580		40	13	ug/L			06/10/21 00:52	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					06/10/21 00:52	20
4-Bromofluorobenzene (Surr)	86		73 - 120					06/10/21 00:52	20
Dibromofluoromethane (Surr)	90		75 - 123					06/10/21 00:52	20
Toluene-d8 (Surr)	102		80 - 120					06/10/21 00:52	20

Method: 8270D LL -	Semivolatile	Orgar	nic	Со	mpounds	by GC/MS -	Low	Level	J
		_		~					

Analyte Res	ult Qualifier	RL	MDL	Unit	D Prepared	Analyzed	Dil Fac
Acenaphthene	75 J	95	6.9	ug/L	06/10/21 08:27	06/14/21 22:50	200
Acenaphthylene	ND	57	11	ug/L	06/10/21 08:27	06/14/21 22:50	200
Anthracene	ND	95	6.5	ug/L	06/10/21 08:27	06/14/21 22:50	200
Chrysene I	ND	95	14	ug/L	06/10/21 08:27	06/14/21 22:50	200
Fluoranthene	ND	95	15	ug/L	06/10/21 08:27	06/14/21 22:50	200
Fluorene	16 J	95	11	ug/L	06/10/21 08:27	06/14/21 22:50	200
Naphthalene 22	00	190	12	ug/L	06/10/21 08:27	06/14/21 22:50	200
Phenanthrene	ND	38	12	ug/L	06/10/21 08:27	06/14/21 22:50	200
Pyrene I	ND	95	14	ug/L	06/10/21 08:27	06/14/21 22:50	200

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	24_146	06/10/21 08:27	06/14/21 22:50	200
2-Fluorobiphenyl	116	37 - 120	06/10/21 08:27	06/14/21 22:50	200
2-Fluorophenol (Surr)	0 S1-	<u> </u>	06/10/21 08:27	06/14/21 22:50	200
Nitrobenzene-d5 (Surr)	75	26 - 120	06/10/21 08:27	06/14/21 22:50	200
Phenol-d5 (Surr)		<u> 11 – 120 – </u>	06/10/21 08:27	06/14/21 22:50	200
p-Terphenyl-d14	118	64 - 127	06/10/21 08:27	06/14/21 22:50	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	2.5	J	0.050	0.016	ug/L		06/13/21 08:28	06/14/21 02:20	1
Benzo[a]pyrene	2.8		0.050	0.022	ug/L		06/13/21 08:28	06/14/21 02:20	1
Benzo[b]fluoranthene	1.8		0.050	0.024	ug/L		06/13/21 08:28	06/14/21 02:20	1
Benzo[g,h,i]perylene	1.1		0.050	0.035	ug/L		06/13/21 08:28	06/14/21 02:20	1
Benzo[k]fluoranthene	0.95		0.050	0.028	ug/L		06/13/21 08:28	06/14/21 02:20	1
Dibenz(a,h)anthracene	0.34		0.050	0.020	ug/L		06/13/21 08:28	06/14/21 02:20	1
Indeno[1,2,3-cd]pyrene	1.1		0.050	0.036	ug/L		06/13/21 08:28	06/14/21 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	125		25 - 131				06/13/21 08:28	06/14/21 02:20	1
Nitrobenzene-d5	79		54 - 134				06/13/21 08:28	06/14/21 02:20	1

Client Sample Results

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-46S 060821 Date Collected: 06/08/21 08:50 Date Received: 06/09/21 08:00

Method: RSK-175 - Dissolved Ga	ases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	11000		440	110	ug/L			06/09/21 18:22	110
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.3		0.050	0.019	mg/L		06/10/21 10:06	06/11/21 00:55	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		10.0	1.7	mg/L			06/12/21 04:41	5
Ammonia	3.3		0.040	0.018	mg/L			06/10/21 08:49	2
Cyanide, Total	0.012	₿ J+	0.010	0.0050	mg/L		06/10/21 11:24	06/10/21 17:05	1
Nitrate as N	ND		0.050	0.020	mg/L			06/09/21 17:14	1
Alkalinity, Total	336		5.0	0.79	mg/L			06/11/21 14:55	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-33S 060821 Date Collected: 06/08/21 08:55 Date Received: 06/09/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Benzene ND 0.41 ug/L 1.0 06/10/21 01:15 1 Bromoform ND 0.26 ug/L 1.0 06/10/21 01:15 1 Chlorodibromomethane ND 1.0 0.32 ug/L 06/10/21 01:15 1 Chloroform ND 1.0 0.34 ug/L 06/10/21 01:15 1 Dichlorobromomethane ND 06/10/21 01:15 1.0 0.39 ug/L 1 Ethylbenzene ND 1.0 0.74 ug/L 06/10/21 01:15 1 ND Toluene 1.0 0.51 ug/L 06/10/21 01:15 1 Xylenes, Total ND 2.0 0.66 ug/L 06/10/21 01:15 1 Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed

1,2-Dichloroethane-d4 (Surr)	91	77 - 120	06/10/21 01:15	1
4-Bromofluorobenzene (Surr)	84	73 - 120	06/10/21 01:15	1
Dibromofluoromethane (Surr)	88	75 - 123	06/10/21 01:15	1
Toluene-d8 (Surr)	98	80 - 120	06/10/21 01:15	1

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

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		06/10/21 08:27	06/14/21 23:18	1
Acenaphthylene	ND		0.29	0.053	ug/L		06/10/21 08:27	06/14/21 23:18	1
Anthracene	ND		0.48	0.032	ug/L		06/10/21 08:27	06/14/21 23:18	1
Chrysene	ND		0.48	0.070	ug/L		06/10/21 08:27	06/14/21 23:18	1
Fluoranthene	ND		0.48	0.076	ug/L		06/10/21 08:27	06/14/21 23:18	1
Fluorene	ND		0.48	0.055	ug/L		06/10/21 08:27	06/14/21 23:18	1
Naphthalene	0.22 J		0.95	0.061	ug/L		06/10/21 08:27	06/14/21 23:18	1
Phenanthrene	-0.086 -J	- B 0.19 U	0.19	0.059	ug/L		06/10/21 08:27	06/14/21 23:18	1
Pyrene	ND		0.48	0.072	ug/L		06/10/21 08:27	06/14/21 23:18	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		24 - 146				06/10/21 08:27	06/14/21 23:18	1
2-Fluorobiphenyl	100		37 - 120				06/10/21 08:27	06/14/21 23:18	1

Lab Sample ID: 480-185758-1 Matrix: Water

Lab Sample ID: 480-185758-2

Matrix: Water

Eurofins TestAmerica, Buffalo

Client Sample ID: MW-33S 060821 Date Collected: 06/08/21 08:55 Date Received: 06/09/21 08:00

Lab Sample ID: 480-185758-2 Matrix: Water

Method: 8270D LL - Sen	nivolatile Organic	Compour	nds by GC/M	S - Low	Level (C	ontinu	ied)		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	49		10 - 120				06/10/21 08:27	06/14/21 23:18	1
Nitrobenzene-d5 (Surr)	87		26 - 120				06/10/21 08:27	06/14/21 23:18	1
Phenol-d5 (Surr)	33		11 - 120				06/10/21 08:27	06/14/21 23:18	1
p-Terphenyl-d14	101		64 - 127				06/10/21 08:27	06/14/21 23:18	1
Method: 8270E SIM - Se	mivolatile Organi	c Compou	inds (GC/MS	SIM)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND	UJ	0.050	0.016	ug/L		06/13/21 08:28	06/14/21 02:41	1
Benzolalpyrene	ND		0.050	0 022	ua/l		06/13/21 08:28	06/14/21 02.41	1

		0.000	0.011 0.9/1		•
Benzo[b]fluoranthene	ND	0.050	0.024 ug/L	06/13/21 08:28 06/14/21 02:41	1
Benzo[g,h,i]perylene	ND	0.050	0.035 ug/L	06/13/21 08:28 06/14/21 02:41	1
Benzo[k]fluoranthene	ND	0.050	0.028 ug/L	06/13/21 08:28 06/14/21 02:41	1
Dibenz(a,h)anthracene	ND	0.050	0.020 ug/L	06/13/21 08:28 06/14/21 02:41	1
Indeno[1,2,3-cd]pyrene	ND	0.050	0.036 ug/L	06/13/21 08:28 06/14/21 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	167	S1+	25 - 131	06/13/21 08:28	06/14/21 02:41	1
Nitrobenzene-d5	148	S1+	54 - 134	06/13/21 08:28	06/14/21 02:41	1

Method: RSK-175 - Dissolved G	ases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	16		4.0	1.0	ug/L			06/09/21 16:10	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.8		0.050	0.019	mg/L		06/10/21 10:06	06/11/21 00:59	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	43.4		10.0	1.7	mg/L			06/12/21 04:59	5
Ammonia	0.83		0.020	0.0090	mg/L			06/10/21 08:03	1
Cyanide, Total	0.0070	JB 0.010 U	0.010	0.0050	mg/L		06/10/21 11:24	06/10/21 17:06	1
Nitrate as N	0.020	J	0.050	0.020	mg/L			06/09/21 17:16	1
Alkalinity, Total	407		5.0	0.79	mg/L			06/11/21 15:02	1
Ferrous Iron	ND	HF UJ	0.10	0.075	ma/L			06/11/21 16:10	1

Client Sample ID: MW-45S 060821 Date Collected: 06/08/21 10:15 Date Received: 06/09/21 08:00

Method: 8260C - \	Volatile Organic Compounds by GC/MS	
A sealest a	Describe Original	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/10/21 01:37	1
Bromoform	ND		1.0	0.26	ug/L			06/10/21 01:37	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			06/10/21 01:37	1
Chloroform	ND		1.0	0.34	ug/L			06/10/21 01:37	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			06/10/21 01:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/10/21 01:37	1
Toluene	ND		1.0	0.51	ug/L			06/10/21 01:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/10/21 01:37	1

Lab Sample ID: 480-185758-3

Matrix: Water

Client Sample ID: MW-45S 060821 Date Collected: 06/08/21 10:15 Date Received: 06/09/21 08:00

Lab Sample ID: 480-185758-3 Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		06/10/21 01:37	1
4-Bromofluorobenzene (Surr)	84		73 - 120		06/10/21 01:37	1
Dibromofluoromethane (Surr)	88		75 - 123		06/10/21 01:37	1
Toluene-d8 (Surr)	98		80 - 120		06/10/21 01:37	1

Analyte	Result Qua	alifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		06/10/21 08:27	06/14/21 23:45	1
Acenaphthylene	ND		0.29	0.053	ug/L		06/10/21 08:27	06/14/21 23:45	1
Anthracene	ND		0.48	0.032	ug/L		06/10/21 08:27	06/14/21 23:45	1
Chrysene	ND		0.48	0.070	ug/L		06/10/21 08:27	06/14/21 23:45	1
Fluoranthene	ND		0.48	0.076	ug/L		06/10/21 08:27	06/14/21 23:45	1
Fluorene	ND		0.48	0.055	ug/L		06/10/21 08:27	06/14/21 23:45	1
Naphthalene	ND		0.95	0.061	ug/L		06/10/21 08:27	06/14/21 23:45	1
Phenanthrene	0.077 JB	- 0.19 U	0.19	0.059	ug/L		06/10/21 08:27	06/14/21 23:45	1
Pyrene	ND		0.48	0.072	ug/L		06/10/21 08:27	06/14/21 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	109		24 - 146	06/10/21 08:27	06/14/21 23:45	1
2-Fluorobiphenyl	95		37 - 120	06/10/21 08:27	06/14/21 23:45	1
2-Fluorophenol (Surr)	48		10 - 120	06/10/21 08:27	06/14/21 23:45	1
Nitrobenzene-d5 (Surr)	86		26 - 120	06/10/21 08:27	06/14/21 23:45	1
Phenol-d5 (Surr)	32		11 - 120	06/10/21 08:27	06/14/21 23:45	1
p-Terphenyl-d14	98		64 - 127	06/10/21 08:27	06/14/21 23:45	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	υJ	0.050	0.016	ug/L		06/13/21 08:28	06/14/21 03:02	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:28	06/14/21 03:02	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:28	06/14/21 03:02	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:28	06/14/21 03:02	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:28	06/14/21 03:02	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:28	06/14/21 03:02	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:28	06/14/21 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		25 - 131				06/13/21 08:28	06/14/21 03:02	1
Nitrobenzene-d5	95		54 - 134				06/13/21 08:28	06/14/21 03:02	1
	Gases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	370		44	11	ug/L			06/09/21 18:41	11
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10.7		0.050	0.019	mg/L		06/10/21 10:06	06/11/21 01:03	1
_ General Chemistry									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6.9	J	10.0	1.7	mg/L			06/12/21 06:46	5
Ammonia	0.85		0.020	0.0090	mg/L			06/10/21 08:04	1
Cyanide, Total	0.0083	JB 0.010 U	0.010	0.0050	mg/L		06/10/21 11:24	06/10/21 17:08	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-45S 060821 Date Collected: 06/08/21 10:15 Date Received: 06/09/21 08:00

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	0.020	mg/L			06/09/21 17:17	1
Alkalinity, Total	405		5.0	0.79	mg/L			06/11/21 15:09	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-22S 060821 Date Collected: 06/08/21 10:30 Date Received: 06/09/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/10/21 01:59	1
Bromoform	ND		1.0	0.26	ug/L			06/10/21 01:59	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			06/10/21 01:59	1
Chloroform	ND		1.0	0.34	ug/L			06/10/21 01:59	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			06/10/21 01:59	1
Ethylbenzene	ND	F1	1.0	0.74	ug/L			06/10/21 01:59	1
Toluene	ND	F1	1.0	0.51	ug/L			06/10/21 01:59	1
Xylenes, Total	ND	F1	2.0	0.66	ug/L			06/10/21 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		06/10/21 01:59	1
4-Bromofluorobenzene (Surr)	87		73 - 120		06/10/21 01:59	1
Dibromofluoromethane (Surr)	90		75 - 123		06/10/21 01:59	1
Toluene-d8 (Surr)	98		80 - 120		06/10/21 01:59	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		0.48	0.035	ug/L		06/10/21 08:27	06/14/21 22:23	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/10/21 08:27	06/14/21 22:23	1
Anthracene	ND		0.48	0.033	ug/L		06/10/21 08:27	06/14/21 22:23	1
Chrysene	ND		0.48	0.071	ug/L		06/10/21 08:27	06/14/21 22:23	1
Fluoranthene	ND		0.48	0.077	ug/L		06/10/21 08:27	06/14/21 22:23	1
Fluorene	ND		0.48	0.056	ug/L		06/10/21 08:27	06/14/21 22:23	1
Naphthalene	0.068	J	0.96	0.062	ug/L		06/10/21 08:27	06/14/21 22:23	1
Phenanthrene	0.071	JB 0.19 U	0.19	0.060	ug/L		06/10/21 08:27	06/14/21 22:23	1
Pyrene	ND		0.48	0.073	ug/L		06/10/21 08:27	06/14/21 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		24 - 146	06/10/21 08:27	06/14/21 22:23	1
2-Fluorobiphenyl	102		37 - 120	06/10/21 08:27	06/14/21 22:23	1
2-Fluorophenol (Surr)	51		10 - 120	06/10/21 08:27	06/14/21 22:23	1
Nitrobenzene-d5 (Surr)	91		26 - 120	06/10/21 08:27	06/14/21 22:23	1
Phenol-d5 (Surr)	37		11 - 120	06/10/21 08:27	06/14/21 22:23	1
p-Terphenyl-d14	101		64 - 127	06/10/21 08:27	06/14/21 22:23	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 U	J	0.050	0.016	ug/L		06/13/21 08:28	06/14/21 01:16	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:28	06/14/21 01:16	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:28	06/14/21 01:16	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:28	06/14/21 01:16	1

Eurofins TestAmerica, Buffalo

06/18/2021

Job ID: 480-185758-1

Matrix: Water

Lab Sample ID: 480-185758-3 Matrix: Water

Lab Sample ID: 480-185758-4

Client Sample ID: MW-22S 060821 Date Collected: 06/08/21 10:30 Date Received: 06/09/21 08:00

Lab Sample ID: 480-185758-4 Matrix: Water

Lab Sample ID: 480-185758-5

Matrix: Water

Method: 8270E SIM - Semivola	atile Organi	c Compour	nds (GC/MS	SIM) (Co	ontinue	d)			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:28	06/14/21 01:16	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:28	06/14/21 01:16	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:28	06/14/21 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		25 - 131				06/13/21 08:28	06/14/21 01:16	1
Nitrobenzene-d5	90		54 - 134				06/13/21 08:28	06/14/21 01:16	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			06/09/21 16:48	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.27		0.050	0.019	mg/L		06/10/21 10:06	06/11/21 01:07	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	46.7		10.0	1.7	mg/L			06/12/21 07:04	5
Ammonia	ND		0.020	0.0090	mg/L			06/10/21 08:05	1
Cyanide, Total	0.060	B F1 F2 J	0.010	0.0050	mg/L		06/10/21 11:24	06/10/21 16:43	1
Nitrate as N	9.2		0.050	0.020	mg/L			06/09/21 19:12	1
Alkalinity, Total	209		5.0	0.79	mg/L			06/10/21 20:27	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-40 060821 Date Collected: 06/08/21 11:40

Date Received: 06/09/21 08:00

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 0.41 ug/L Benzene ND 1.0 06/10/21 02:22 1 Bromoform ND 1.0 0.26 ug/L 06/10/21 02:22 1 Chlorodibromomethane ND 1.0 0.32 ug/L 06/10/21 02:22 1 ND Chloroform 1.0 0.34 ug/L 06/10/21 02:22 1 Dichlorobromomethane ND 1.0 0.39 ug/L 06/10/21 02:22 1 Ethylbenzene ND 1.0 0.74 ug/L 06/10/21 02:22 1 Toluene ND 1.0 0.51 ug/L 06/10/21 02:22 1 Xylenes, Total ND 2.0 0.66 ug/L 06/10/21 02:22 1 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 92 77 - 120 06/10/21 02:22 1 4-Bromofluorobenzene (Surr) 83 73 - 120 06/10/21 02:22 1

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

90

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		06/10/21 08:27	06/15/21 00:12	1
Acenaphthylene	ND		0.29	0.053	ug/L		06/10/21 08:27	06/15/21 00:12	1
Anthracene	ND		0.48	0.032	ug/L		06/10/21 08:27	06/15/21 00:12	1

75 - 123

80 - 120

Eurofins TestAmerica, Buffalo

06/10/21 02:22

06/10/21 02:22

1

Client Sample Results

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-40 060821 Date Collected: 06/08/21 11:40 Date Received: 06/09/21 08:00

Method: 8270D LL - Sem	ivolatile Organic	Compound	ls by GC/M	S - Low	Level (C	ontinu	ied)		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.48	0.070	ug/L		06/10/21 08:27	06/15/21 00:12	1
Fluoranthene	ND		0.48	0.076	ug/L		06/10/21 08:27	06/15/21 00:12	1
Fluorene	ND		0.48	0.055	ug/L		06/10/21 08:27	06/15/21 00:12	1
Naphthalene	ND		0.95	0.061	ug/L		06/10/21 08:27	06/15/21 00:12	1
Phenanthrene	-0.060	JB 0.119	<mark>U</mark> 0.19	0.059	ug/L		06/10/21 08:27	06/15/21 00:12	1
Pyrene	ND		0.48	0.072	ug/L		06/10/21 08:27	06/15/21 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		24 - 146				06/10/21 08:27	06/15/21 00:12	1
2-Fluorobiphenyl	84		37 - 120				06/10/21 08:27	06/15/21 00:12	1
2-Fluorophenol (Surr)	41		10 - 120				06/10/21 08:27	06/15/21 00:12	1
Nitrobenzene-d5 (Surr)	76		26 - 120				06/10/21 08:27	06/15/21 00:12	1
Phenol-d5 (Surr)	28		11 - 120				06/10/21 08:27	06/15/21 00:12	1
p-Terphenyl-d14	97		64 - 127				06/10/21 08:27	06/15/21 00:12	1
- Method: 8270E SIM - Sen	nivolatile Organi	c Compoun	ds (GC/MS	SIM)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND	UJ	0.050	0.016	ug/L		06/13/21 08:28	06/14/21 03:23	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:28	06/14/21 03:23	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:28	06/14/21 03:23	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:28	06/14/21 03:23	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:28	06/14/21 03:23	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:28	06/14/21 03:23	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:28	06/14/21 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		25 - 131				06/13/21 08:28	06/14/21 03:23	1
Nitrobenzene-d5	94		54 - 134				06/13/21 08:28	06/14/21 03:23	1
Method: RSK-175 - Disso	olved Gases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	110		4.0	1.0	ug/L			06/09/21 17:07	1
Method: 6010C - Metals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.3		0.050	0.019	mg/L		06/10/21 10:06	06/11/21 01:10	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	9.3		2.0	0.35	mg/L			06/12/21 07:22	1
Ammonia	0.45		0.020	0.0090	mg/L			06/10/21 08:06	1
Cyanide, Total	0.010 U 0.0073	JBF1^+	0.010	0.0050	mg/L		06/10/21 11:24	06/10/21 17:12	1
Nitrate as N	ND		0.050	0.020	mg/L			06/09/21 17:19	1
Alkalinity, Total	156		5.0	0.79	mg/L			06/10/21 21:39	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Lab Sample ID: 480-185758-5 Matrix: Water

Client Sample ID: MW-48S 060821 Date Collected: 06/08/21 12:10 Date Received: 06/09/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	41		1.0	0.41	ug/L			06/10/21 12:46	1
Bromoform	ND		1.0	0.26	ug/L			06/10/21 12:46	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			06/10/21 12:46	1
Chloroform	ND		1.0	0.34	ug/L			06/10/21 12:46	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			06/10/21 12:46	1
Ethylbenzene	25		1.0	0.74	ug/L			06/10/21 12:46	1
Toluene	ND		1.0	0.51	ug/L			06/10/21 12:46	1
Xylenes, Total	12		2.0	0.66	ug/L			06/10/21 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					06/10/21 12:46	1
4-Bromofluorobenzene (Surr)	91		73 - 120					06/10/21 12:46	1
Dibromofluoromethane (Surr)	86		75 - 123					06/10/21 12:46	1
Toluene-d8 (Surr)	99		80 - 120					06/10/21 12:46	1

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

Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene 36		4.8	0.34	ug/L		06/10/21 08:27	06/15/21 00:39	10
Acenaphthylene 1.3	J	2.9	0.53	ug/L		06/10/21 08:27	06/15/21 00:39	10
Anthracene 1.7	J	4.8	0.32	ug/L		06/10/21 08:27	06/15/21 00:39	10
Chrysene ND		4.8	0.70	ug/L		06/10/21 08:27	06/15/21 00:39	10
Fluoranthene 0.80	J	4.8	0.76	ug/L		06/10/21 08:27	06/15/21 00:39	10
Fluorene 3.7	J	4.8	0.55	ug/L		06/10/21 08:27	06/15/21 00:39	10
Naphthalene 49		9.5	0.61	ug/L		06/10/21 08:27	06/15/21 00:39	10
Phenanthrene 5.5	B	1.9	0.59	ug/L		06/10/21 08:27	06/15/21 00:39	10
Pyrene 0.83	J	4.8	0.72	ug/L		06/10/21 08:27	06/15/21 00:39	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		24 - 146	06/10/21 08:27	06/15/21 00:39	10
2-Fluorobiphenyl	79		37 - 120	06/10/21 08:27	06/15/21 00:39	10
2-Fluorophenol (Surr)	34		10 - 120	06/10/21 08:27	06/15/21 00:39	10
Nitrobenzene-d5 (Surr)	70		26 - 120	06/10/21 08:27	06/15/21 00:39	10
Phenol-d5 (Surr)	23		11 - 120	06/10/21 08:27	06/15/21 00:39	10
p-Terphenvl-d14	78		64 - 127	06/10/21 08:27	06/15/21 00:39	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.033	J	0.050	0.016	ug/L		06/13/21 08:28	06/13/21 23:58	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:28	06/13/21 23:58	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:28	06/13/21 23:58	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:28	06/13/21 23:58	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:28	06/13/21 23:58	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:28	06/13/21 23:58	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:28	06/13/21 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 131				06/13/21 08:28	06/13/21 23:58	1
Nitrobenzene-d5	98		54 - 134				06/13/21 08:28	06/13/21 23:58	1

Job ID: 480-185758-1

Lab Sample ID: 480-185758-6

Client Sample Results

Matrix: Water

Matrix: Water

Lab Sample ID: 480-185758-6

Lab Sample ID: 480-185758-7

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-48S 060821 Date Collected: 06/08/21 12:10 Date Received: 06/09/21 08:00

Method: RSK-175 - Dissolved Ga	ases (GC))							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	3000		44	11	ug/L			06/09/21 17:25	11
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.8		0.050	0.019	mg/L		06/10/21 10:06	06/11/21 01:14	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	·	40.0	7.0	mg/L			06/12/21 07:39	20
Ammonia	1.4		0.020	0.0090	mg/L			06/10/21 08:08	1
Cyanide, Total	0.0097	JB 0.010 U	0.010	0.0050	mg/L		06/11/21 12:03	06/11/21 14:35	1
Nitrate as N	ND		0.050	0.020	mg/L			06/09/21 17:21	1
Alkalinity, Total	338		5.0	0.79	mg/L			06/10/21 20:34	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-31S 060821 Date Collected: 06/08/21 13:30 Date Received: 06/09/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Benzene ND 0.41 ug/L 1.0 06/10/21 03:06 1 Bromoform ND 0.26 ug/L 1.0 06/10/21 03:06 1 Chlorodibromomethane ND 1.0 0.32 ug/L 06/10/21 03:06 1 Chloroform ND 1.0 0.34 ug/L 06/10/21 03:06 1 Dichlorobromomethane ND 06/10/21 03:06 1.0 0.39 ug/L 1 Ethylbenzene ND 1.0 0.74 ug/L 06/10/21 03:06 1 ND Toluene 1.0 0.51 ug/L 06/10/21 03:06 1 ND Xylenes, Total 2.0 0.66 ug/L 06/10/21 03:06 1 Surrogato %Recovery Qualifier Limito Proparad Analyzad Dil Eng

Junogate	/intecovery	Quanner	Linits	rrepureu	Analyzeu	Dirrac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		06/10/21 03:06	1
4-Bromofluorobenzene (Surr)	83		73 - 120		06/10/21 03:06	1
Dibromofluoromethane (Surr)	87		75 - 123		06/10/21 03:06	1
Toluene-d8 (Surr)	101		80 - 120		06/10/21 03:06	1

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

Analyte	Result Qualifi	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	0.48	0.034	ug/L		06/10/21 08:27	06/15/21 03:23	1
Acenaphthylene	ND	0.29	0.053	ug/L		06/10/21 08:27	06/15/21 03:23	1
Anthracene	ND	0.48	0.032	ug/L		06/10/21 08:27	06/15/21 03:23	1
Chrysene	ND	0.48	0.070	ug/L		06/10/21 08:27	06/15/21 03:23	1
Fluoranthene	ND	0.48	0.076	ug/L		06/10/21 08:27	06/15/21 03:23	1
Fluorene	ND	0.48	0.055	ug/L		06/10/21 08:27	06/15/21 03:23	1
Naphthalene	ND	0.95	0.061	ug/L		06/10/21 08:27	06/15/21 03:23	1
Phenanthrene	0.067 JB 0.	19 U 0.19	0.059	ug/L		06/10/21 08:27	06/15/21 03:23	1
Pyrene	ND	0.48	0.072	ug/L		06/10/21 08:27	06/15/21 03:23	1
Surrogate	%Recovery Qualifi	er Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91	24 - 146				06/10/21 08:27	06/15/21 03:23	1
2-Fluorobiphenyl	91	37 - 120				06/10/21 08:27	06/15/21 03:23	1

Eurofins TestAmerica, Buffalo

Client Sample ID: MW-31S 060821 Date Collected: 06/08/21 13:30 Date Received: 06/09/21 08:00

Lab Sample ID: 480-185758-7 Matrix: Water

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

Surrogate	%Recovery	Qualifier L	.imits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	45		0 - 120	06/10/21 08:27	06/15/21 03:23	1
Nitrobenzene-d5 (Surr)	82	2	6 - 120	06/10/21 08:27	06/15/21 03:23	1
Phenol-d5 (Surr)	31	1	1 - 120	06/10/21 08:27	06/15/21 03:23	1
p-Terphenyl-d14	99	e	4 - 127	06/10/21 08:27	06/15/21 03:23	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		06/13/21 08:28	06/14/21 00:19	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:28	06/14/21 00:19	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:28	06/14/21 00:19	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:28	06/14/21 00:19	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:28	06/14/21 00:19	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:28	06/14/21 00:19	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:28	06/14/21 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 131	06/13/21 08:28	06/14/21 00:19	1
Nitrobenzene-d5	96		54 - 134	06/13/21 08:28	06/14/21 00:19	1

Method: RSK-175 - Dissolved Gases (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	130		4.0	1.0	ug/L			06/09/21 17:44	1
– Method: 6010C - Metals (ICP)									

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.27		0.050	0.019	mg/L		06/10/21 10:06	06/11/21 01:18	1
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
17.9		4.0	0.70	mg/L			06/12/21 07:57	2
0.014	J	0.020	0.0090	mg/L			06/10/21 08:11	1
ND		0.010	0.0050	mg/L		06/11/21 12:03	06/11/21 14:36	1
0.025	J	0.050	0.020	mg/L			06/09/21 17:22	1
260		5.0	0.79	mg/L			06/10/21 20:40	1
	Result 0.27 Result 17.9 0.014 ND 0.025 260	ResultQualifier0.27QualifierResultQualifier17.9Qualifier0.014JND0.025260J	Result Qualifier RL 0.27 0.050 Result Qualifier RL 17.9 4.0 0.014 0.020 ND 0.010 0.025 J 0.050 260 5.0	Result Qualifier RL MDL 0.27 0.050 0.019 Result Qualifier RL MDL 17.9 4.0 0.70 0.014 J 0.020 0.0090 ND 0.010 0.0050 0.025 J 0.050 0.020 260 5.0 0.79	Result Qualifier RL MDL Unit 0.27 0.050 0.019 mg/L Result Qualifier RL MDL Unit 17.9 4.0 0.70 mg/L 0.014 J 0.020 0.0090 mg/L ND 0.010 0.0050 mg/L 0.025 J 0.050 0.020 mg/L 260 5.0 0.79 mg/L	Result Qualifier RL MDL Unit D 0.27 0.050 0.019 mg/L D Result Qualifier RL MDL Unit D 17.9 4.0 0.70 mg/L D 0.014 J 0.020 0.0090 mg/L D ND 0.010 0.0050 mg/L D D 0.025 J 0.050 0.020 mg/L Z60 5.0 0.79 mg/L	Result Qualifier RL MDL Unit D Prepared 0.27 0.050 0.019 mg/L D Prepared 0.27 0.050 0.019 mg/L D Prepared 06/10/21 10:06 0.019 mg/L D Prepared Result Qualifier RL MDL Unit D Prepared 17.9 4.0 0.70 mg/L D Prepared 0.014 J 0.020 0.0090 mg/L 06/11/21 12:03 ND 0.010 0.0050 mg/L 06/11/21 12:03 06/11/21 12:03 0.025 J 0.050 0.020 mg/L 06/11/21 12:03 260 5.0 0.79 mg/L 06/11/21 12:03	Result Qualifier RL MDL Unit D Prepared Analyzed 0.27 0.050 0.050 0.019 mg/L D Prepared Analyzed 06/10/21 10:06 06/11/21 01:18 06/11/21 01:18 D Prepared 06/11/21 01:18 Result Qualifier RL MDL Unit D Prepared Analyzed 17.9 4.0 0.70 mg/L D Prepared Analyzed 0.014 J 0.020 0.0090 mg/L 06/10/21 08:11 06/10/21 08:11 ND 0.010 0.0050 mg/L 06/11/21 12:03 06/11/21 14:36 0.025 J 0.050 0.020 mg/L 06/09/21 17:22 260 5.0 0.79 mg/L 06/10/21 20:40

0.10

0.075 mg/L

Client Sample ID: MW-47S 060821 Date Collected: 06/08/21 13:35 Date Received: 06/09/21 08:00

Ferrous Iron

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

0.12 HF J

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/10/21 03:28	1
Bromoform	ND		1.0	0.26	ug/L			06/10/21 03:28	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			06/10/21 03:28	1
Chloroform	ND		1.0	0.34	ug/L			06/10/21 03:28	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			06/10/21 03:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/10/21 03:28	1
Toluene	ND		1.0	0.51	ug/L			06/10/21 03:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/10/21 03:28	1

Eurofins TestAmerica, Buffalo

Lab Sample ID: 480-185758-8 Matrix: Water

1

06/11/21 16:10

Client Sample ID: MW-47S 060821 Date Collected: 06/08/21 13:35 Date Received: 06/09/21 08:00

Lab Sample ID: 480-185758-8

Matrix: Water

Job ID: 480-185758-1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120					06/10/21 03:28	1
4-Bromofluorobenzene (Surr)	83		73 - 120					06/10/21 03:28	1
Dibromofluoromethane (Surr)	86		75 - 123					06/10/21 03:28	1
Toluene-d8 (Surr)	99		80 - 120					06/10/21 03:28	1
Method: 8270D LL - Semivola	tile Organic	Compour	ds by GC/MS	S - Low I	Level				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.84	J	2.4	0.17	ug/L		06/10/21 08:27	06/15/21 03:50	5
Acenaphthylene	ND		1.4	0.27	ug/L		06/10/21 08:27	06/15/21 03:50	5
Anthracene	ND		2.4	0.16	ug/L		06/10/21 08:27	06/15/21 03:50	5
Chrysene	ND		2.4	0.35	ug/L		06/10/21 08:27	06/15/21 03:50	5
Fluoranthene	ND		2.4	0.38	ug/L		06/10/21 08:27	06/15/21 03:50	5
Fluorene	ND		2.4	0.28	ug/L		06/10/21 08:27	06/15/21 03:50	5
Naphthalene	ND		4.8	0.30	ug/L		06/10/21 08:27	06/15/21 03:50	5
Phenanthrene	ND		0.95	0.30	ug/L		06/10/21 08:27	06/15/21 03:50	5
Pyrene	ND		2.4	0.36	ug/L		06/10/21 08:27	06/15/21 03:50	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		24 - 146				06/10/21 08:27	06/15/21 03:50	5
2-Fluorobiphenyl	83		37 - 120				06/10/21 08:27	06/15/21 03:50	5
2-Fluorophenol (Surr)	40		10 - 120				06/10/21 08:27	06/15/21 03:50	5
Nitrobenzene-d5 (Surr)	76		26 - 120				06/10/21 08:27	06/15/21 03:50	5
Phenol-d5 (Surr)	26		11 - 120				06/10/21 08:27	06/15/21 03:50	5
p-Terphenyl-d14	77		64 - 127				06/10/21 08:27	06/15/21 03:50	5
_ Method: 8270E SIM - Semivola	atile Organi	c Compou	nds (GC/MS	SIM)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzolalanthracene	0.040			0.010	ua/l		06/12/21 08:28	06/14/21 00:40	
	0.016	J	0.050	0.016	ug/L		00/13/21 00.20	00/14/21 00.40	1
Benzo[a]pyrene	U.UT6 ND	J	0.050 0.050	0.016	ug/L		06/13/21 08:28	06/14/21 00:40	1
Benzo[a]pyrene Benzo[b]fluoranthene	ND ND	J	0.050 0.050 0.050	0.016 0.022 0.024	ug/L ug/L		06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40	1 1 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene	ND ND ND	J	0.050 0.050 0.050 0.050	0.016 0.022 0.024 0.035	ug/L ug/L ug/L		06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40	1 1 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene	ND ND ND ND	J	0.050 0.050 0.050 0.050 0.050	0.016 0.022 0.024 0.035 0.028	ug/L ug/L ug/L ug/L		06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40	1 1 1 1 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene	ND ND ND ND ND	J	0.050 0.050 0.050 0.050 0.050 0.050	0.016 0.022 0.024 0.035 0.028 0.020	ug/L ug/L ug/L ug/L ug/L		06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40	1 1 1 1 1 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene	ND ND ND ND ND ND	J	0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.016 0.022 0.024 0.035 0.028 0.020 0.036	ug/L ug/L ug/L ug/L ug/L ug/L		06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40	1 1 1 1 1 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate	ND ND ND ND ND ND ND	J Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 0.050 Limits	0.016 0.022 0.024 0.035 0.028 0.020 0.036	ug/L ug/L ug/L ug/L ug/L ug/L		06/13/21 08:20 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 Prepared	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 Analyzed	1 1 1 1 1 1 Dil Fac
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl	ND ND ND ND ND ND ND 88	J Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131	0.016 0.022 0.024 0.035 0.028 0.020 0.036	ug/L ug/L ug/L ug/L ug/L ug/L		06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 Prepared 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 <u>Analyzed</u> 06/14/21 00:40	1 1 1 1 1 1 Dil Fac 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5	0.018 ND ND ND ND ND %Recovery 88 98	J Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134	0.016 0.022 0.024 0.035 0.028 0.020 0.036	ug/L ug/L ug/L ug/L ug/L		06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 Prepared 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40	1 1 1 1 1 1 1 Dil Fac 1 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved	ND ND ND ND ND %Recovery 88 98 Gases (GC	J Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 0.050 Limits 25 - 131 54 - 134	0.016 0.022 0.024 0.035 0.028 0.020 0.036	ug/L ug/L ug/L ug/L ug/L		06/13/21 08:20 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 Prepared 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40	1 1 1 1 1 1 Dil Fac 1 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte	ND ND ND ND ND ND %Recovery 88 98 Gases (GC Result	J <u>Qualifier</u> Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134	0.016 0.022 0.024 0.035 0.028 0.020 0.036	ug/L ug/L ug/L ug/L ug/L ug/L	D	06/13/21 08:20 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 <i>Prepared</i> 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 Analyzed	1 1 1 1 1 1 Dil Fac 1 1 Dil Fac
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte Methane	0.016 ND ND ND ND %Recovery 88 98 Gases (GC Result 13000	Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134 <u>RL</u> 440	0.016 0.022 0.024 0.035 0.028 0.020 0.036 MDL 110	ug/L ug/L ug/L ug/L ug/L	<u>D</u>	06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40	1 1 1 1 1 1 1 Dil Fac 1 1 10
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte Methane Method: 6010C - Metals (ICP)	0.016 ND ND ND ND ND ND ND ND S8 98 98 Gases (GC) Result 13000	Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134 <u>RL</u> 440	0.016 0.022 0.024 0.035 0.028 0.020 0.036 MDL 110	ug/L ug/L ug/L ug/L ug/L Unit ug/L	<u>D</u>	06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 Analyzed 06/09/21 19:00	1 1 1 1 1 1 Dil Fac 1 1 Dil Fac 110
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte Methane Method: 6010C - Metals (ICP) Analyte	0.016 ND ND ND ND ND %Recovery 88 98 Gases (GC) Result 13000 Result	J <u>Qualifier</u> Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134 <u>RL</u> 440	0.016 0.022 0.024 0.035 0.028 0.020 0.036 MDL 110	ug/L ug/L ug/L ug/L ug/L Unit Unit	<u>D</u>	06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 Prepared Prepared	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 Analyzed 06/09/21 19:00 Analyzed	1 1 1 1 1 1 <i>Dil Fac</i> 1 10 Dil Fac
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte Methane Method: 6010C - Metals (ICP) Analyte Iron	0.016 ND ND ND ND ND %Recovery 88 98 Gases (GC) Result 13000 Result 15.4	Qualifier Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134 <u>RL</u> 440 <u>RL</u> 0.050	0.016 0.022 0.024 0.035 0.028 0.020 0.036 MDL 110 MDL 0.019	ug/L ug/L ug/L ug/L ug/L ug/L Unit ug/L	D	06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 <i>Prepared</i> 06/13/21 08:28 06/13/21 08:28 Prepared 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 Analyzed 06/09/21 19:00 Analyzed 06/11/21 01:22	1 1 1 1 1 1 1 <i>Dil Fac</i> 1 10 Dil Fac 110
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte Methane Method: 6010C - Metals (ICP) Analyte Iron General Chemistry	0.016 ND ND ND ND <i>%Recovery</i> 88 98 Gases (GC) <u>Result</u> 13000 <u>Result</u>	Qualifier Qualifier Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> <u>25 - 131</u> <u>54 - 134</u> <u>RL</u> <u>440</u> <u>RL</u> 0.050	0.016 0.022 0.024 0.035 0.028 0.020 0.036 0.036 MDL 110 MDL 0.019	ug/L ug/L ug/L ug/L ug/L ug/L Unit mg/L	<u>D</u>	06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 Prepared 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 Analyzed 06/09/21 19:00 Analyzed 06/11/21 01:22	1 1 1 1 1 1 Dil Fac 110 Dil Fac 1
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte Methane Method: 6010C - Metals (ICP) Analyte Iron General Chemistry Analyte	0.016 ND ND ND ND ND %Recovery 88 98 Gases (GC) Result 13000 Result 15.4 Result	J Qualifier Qualifier Qualifier	0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134 <u>RL</u> 440 <u>RL</u> 0.050 <u>RL</u>	0.016 0.022 0.024 0.035 0.028 0.020 0.036 0.036 MDL 110 MDL 0.019 MDL	ug/L ug/L ug/L ug/L ug/L ug/L Unit ug/L Unit mg/L	D D D	06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 <i>Prepared</i> 06/13/21 08:28 06/13/21 08:28 Prepared 06/10/21 10:06 Prepared	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 <u>Analyzed</u> 06/09/21 19:00 <u>Analyzed</u> 06/11/21 01:22 Analyzed	1 1 1 1 1 1 1 <i>Dil Fac</i> 1 10 Dil Fac 1 Dil Fac
Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Dibenz(a,h)anthracene Indeno[1,2,3-cd]pyrene Surrogate 2-Fluorobiphenyl Nitrobenzene-d5 Method: RSK-175 - Dissolved Analyte Methane Methane Method: 6010C - Metals (ICP) Analyte Iron General Chemistry Analyte Sulfate	0.016 ND ND ND ND ND %Recovery 88 98 Gases (GC) Result 13000 Result 15.4 Result ND	J <u>Qualifier</u> <u>Qualifier</u> <u>Qualifier</u>	0.050 0.050 0.050 0.050 0.050 0.050 <u>Limits</u> 25 - 131 54 - 134 <u>RL</u> 0.050 <u>RL</u> 0.050	0.016 0.022 0.024 0.035 0.028 0.020 0.036 MDL 0.019 MDL 1.7	ug/L ug/L ug/L ug/L ug/L ug/L Unit mg/L Unit mg/L	D D	06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 06/13/21 08:28 Prepared 06/13/21 08:28 Prepared 06/13/21 08:28	06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/14/21 00:40 06/09/21 19:00 Analyzed 06/09/21 19:00 Analyzed 06/11/21 01:22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Eurofins TestAmerica, Buffalo

06/11/21 12:03 06/11/21 14:40

0.010

0.0050 mg/L

0.010 B J+

Cyanide, Total

Client Sample Results

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-47S 060821 Date Collected: 06/08/21 13:35 Date Received: 06/09/21 08:00

General Chemistry (Cont	tinued)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	0.020	mg/L			06/09/21 17:25	1
Alkalinity, Total	303		5.0	0.79	mg/L			06/10/21 20:47	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: DUP

Date Collected: 06/08/21 00:00 Date Received: 06/09/21 08:

Date Received: 06/09/21	08:00								
Method: 8260C - Volatil	e Organic Compo	unds by GC/	MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/10/21 03:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/10/21 03:50	1
Toluene	ND		1.0	0.51	ug/L			06/10/21 03:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/10/21 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		06/10/21 03:50	1
4-Bromofluorobenzene (Surr)	89		73 - 120		06/10/21 03:50	1
Dibromofluoromethane (Surr)	86		75 - 123		06/10/21 03:50	1
Toluene-d8 (Surr)	97		80 - 120		06/10/21 03:50	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	0.48	0.034	ug/L		06/10/21 08:27	06/15/21 04:17	1
Acenaphthylene	ND	0.29	0.053	ug/L		06/10/21 08:27	06/15/21 04:17	1
Anthracene	ND	0.48	0.032	ug/L		06/10/21 08:27	06/15/21 04:17	1
Chrysene	ND	0.48	0.070	ug/L		06/10/21 08:27	06/15/21 04:17	1
Fluoranthene	ND	0.48	0.076	ug/L		06/10/21 08:27	06/15/21 04:17	1
Fluorene	ND	0.48	0.055	ug/L		06/10/21 08:27	06/15/21 04:17	1
Naphthalene	ND	0.95	0.061	ug/L		06/10/21 08:27	06/15/21 04:17	1
Phenanthrene	0.067 ЈВ 0.19 U	0.19	0.059	ug/L		06/10/21 08:27	06/15/21 04:17	1
Pyrene	ND	0.48	0.072	ug/L		06/10/21 08:27	06/15/21 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		24 - 146	06/10/21 08:27	06/15/21 04:17	1
2-Fluorobiphenyl	97		37 - 120	06/10/21 08:27	06/15/21 04:17	1
2-Fluorophenol (Surr)	48		10 - 120	06/10/21 08:27	06/15/21 04:17	1
Nitrobenzene-d5 (Surr)	90		26 - 120	06/10/21 08:27	06/15/21 04:17	1
Phenol-d5 (Surr)	32		11 - 120	06/10/21 08:27	06/15/21 04:17	1
p-Terphenyl-d14	104		64 - 127	06/10/21 08:27	06/15/21 04:17	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		06/13/21 08:28	06/14/21 01:01	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:28	06/14/21 01:01	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:28	06/14/21 01:01	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:28	06/14/21 01:01	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:28	06/14/21 01:01	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:28	06/14/21 01:01	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:28	06/14/21 01:01	1

Lab Sample ID: 480-185758-8

Lab Sample ID: 480-185758-9

Job ID: 480-185758-1

Matrix: Water

Matrix: Water

Client Sample Results

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: DUP Date Collected: 06/08/21 00:0	00					La	b Sample	ID: 480-185 Matrix:	758-9 Water
Date Received: 06/09/21 08:0	0								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl			25 - 131				06/13/21 08:28	06/14/21 01:01	1
Nitrobenzene-d5	101		54 - 134				06/13/21 08:28	06/14/21 01:01	1
_ General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/11/21 12:03	06/11/21 14:42	1
Client Sample ID: TRIP	BLANK					Lat	Sample II	D: 480-1857	58-10
Date Collected: 06/08/21 00:0	00							Matrix	Water
Date Received: 06/09/21 08:0	0								
	manic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/10/21 04:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/10/21 04:12	1
Toluene	ND		1.0	0.51	ug/L			06/10/21 04:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/10/21 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120					06/10/21 04:12	1
4-Bromofluorobenzene (Surr)	84		73 - 120					06/10/21 04:12	1

75 - 123

80 - 120

90

102

06/10/21 04:12

06/10/21 04:12

1

Sample Summary

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-185822-1	MW-23S 060921	Water	06/09/21 08:40	06/10/21 08:00
480-185822-2	MW-C16 060921	Water	06/09/21 09:30	06/10/21 08:00
480-185822-3	MW-C11 060921	Water	06/09/21 10:40	06/10/21 08:00
480-185822-4	MW-25S 060921	Water	06/09/21 10:05	06/10/21 08:00
480-185822-5	MW-28S 060921	Water	06/09/21 12:15	06/10/21 08:00
480-185822-6	MW-24S 060921	Water	06/09/21 12:35	06/10/21 08:00
480-185822-7	TRIP BLANK	Water	06/09/21 00:00	06/10/21 08:00
Client Sample ID: MW-23S 060921 Date Collected: 06/09/21 08:40 Date Received: 06/10/21 08:00

Toluene-d8 (Surr)

Lab Sample ID: 480-185822-1 Matrix: Water

06/11/21 12:21

2

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1	J	2.0	0.82	ug/L			06/11/21 12:21	2
Bromoform	ND		2.0	0.52	ug/L			06/11/21 12:21	2
Chlorodibromomethane	ND		2.0	0.64	ug/L			06/11/21 12:21	2
Chloroform	ND		2.0	0.68	ug/L			06/11/21 12:21	2
Dichlorobromomethane	ND		2.0	0.78	ug/L			06/11/21 12:21	2
Ethylbenzene	27		2.0	1.5	ug/L			06/11/21 12:21	2
Toluene	1.3	J	2.0	1.0	ug/L			06/11/21 12:21	2
Xylenes, Total	22		4.0	1.3	ug/L			06/11/21 12:21	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					06/11/21 12:21	2
4-Bromofluorobenzene (Surr)	112		73 - 120					06/11/21 12:21	2
Dibromofluoromethane (Surr)	110		75 - 123					06/11/21 12:21	2

80 - 120

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

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Analyte Resu	It Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene 5	8	25	1.8	ug/L		06/11/21 14:34	06/14/21 16:28	50
Acenaphthylene N	D	15	2.8	ug/L		06/11/21 14:34	06/14/21 16:28	50
Anthracene 5.	8 J	25	1.7	ug/L		06/11/21 14:34	06/14/21 16:28	50
Chrysene N	D	25	3.7	ug/L		06/11/21 14:34	06/14/21 16:28	50
Fluoranthene N	D	25	4.0	ug/L		06/11/21 14:34	06/14/21 16:28	50
Fluorene 1	7 J	25	2.9	ug/L		06/11/21 14:34	06/14/21 16:28	50
Naphthalene 1	4 J	50	3.2	ug/L		06/11/21 14:34	06/14/21 16:28	50
Phenanthrene 2	2 B	10	3.1	ug/L		06/11/21 14:34	06/14/21 16:28	50
Pyrene N	D	25	3.8	ug/L		06/11/21 14:34	06/14/21 16:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)			24 - 146	06/11/21 14:34	06/14/21 16:28	50
2-Fluorobiphenyl	94		37 - 120	06/11/21 14:34	06/14/21 16:28	50
2-Fluorophenol (Surr)	39		10 - 120	06/11/21 14:34	06/14/21 16:28	50
Nitrobenzene-d5 (Surr)	73		26 - 120	06/11/21 14:34	06/14/21 16:28	50
Phenol-d5 (Surr)	29		11 - 120	06/11/21 14:34	06/14/21 16:28	50
p-Terphenyl-d14	102		64 - 127	06/11/21 14:34	06/14/21 16:28	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.067	J	0.050	0.016	ug/L		06/13/21 08:25	06/13/21 23:09	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:25	06/13/21 23:09	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:25	06/13/21 23:09	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:25	06/13/21 23:09	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:25	06/13/21 23:09	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:25	06/13/21 23:09	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:25	06/13/21 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		25 - 131				06/13/21 08:25	06/13/21 23:09	1
Nitrobenzene-d5	79		54 - 134				06/13/21 08:25	06/13/21 23:09	1

Client Sample Results

Matrix: Water

Lab Sample ID: 480-185822-1

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-23S 060921 Date Collected: 06/09/21 08:40 Date Received: 06/10/21 08:00

Method: RSK-175 - Dissolved Gas	ses (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	2500		44	11	ug/L			06/10/21 15:20	11
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.3		0.050	0.019	mg/L		06/15/21 16:11	06/16/21 14:19	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.5	J	10.0	1.7	mg/L			06/12/21 09:45	5
Ammonia	0.54		0.020	0.0090	mg/L			06/11/21 08:50	1
Cyanide, Total	0.0072	J	0.010	0.0050	mg/L		06/14/21 12:20	06/14/21 15:55	1
Nitrate as N	0.20		0.050	0.020	mg/L			06/10/21 17:54	1
Alkalinity, Total	228		5.0	0.79	mg/L			06/11/21 01:00	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-C16 060921 Date Collected: 06/09/21 09:30 Date Received: 06/10/21 08:00

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 480-185822-2 Matrix: Water

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.82	ug/L			06/11/21 12:43	2
Bromoform	ND		2.0	0.52	ug/L			06/11/21 12:43	2
Chlorodibromomethane	ND		2.0	0.64	ug/L			06/11/21 12:43	2
Chloroform	ND		2.0	0.68	ug/L			06/11/21 12:43	2
Dichlorobromomethane	ND		2.0	0.78	ug/L			06/11/21 12:43	2
Ethylbenzene	2.0		2.0	1.5	ug/L			06/11/21 12:43	2
Toluene	ND		2.0	1.0	ug/L			06/11/21 12:43	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/11/21 12:43	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					06/11/21 12:43	2
4-Bromofluorobenzene (Surr)	108		73 - 120					06/11/21 12:43	2

75 - 123

80 - 120

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

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101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25		10	0.72	ug/L		06/11/21 14:34	06/14/21 16:55	20
Acenaphthylene	ND		6.0	1.1	ug/L		06/11/21 14:34	06/14/21 16:55	20
Anthracene	ND		10	0.68	ug/L		06/11/21 14:34	06/14/21 16:55	20
Chrysene	ND		10	1.5	ug/L		06/11/21 14:34	06/14/21 16:55	20
Fluoranthene	ND		10	1.6	ug/L		06/11/21 14:34	06/14/21 16:55	20
Fluorene	6.0	J	10	1.2	ug/L		06/11/21 14:34	06/14/21 16:55	20
Naphthalene	ND		20	1.3	ug/L		06/11/21 14:34	06/14/21 16:55	20
Phenanthrene	1.9	JB 4.0 U	4.0	1.2	ug/L		06/11/21 14:34	06/14/21 16:55	20
Pyrene	ND		10	1.5	ug/L		06/11/21 14:34	06/14/21 16:55	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 146				06/11/21 14:34	06/14/21 16:55	20
2-Fluorobiphenyl	88		37 - 120				06/11/21 14:34	06/14/21 16:55	20

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06/11/21 12:43

06/11/21 12:43

2

2

Client Sample ID: MW-C16 060921 Date Collected: 06/09/21 09:30 Date Received: 06/10/21 08:00

Lab Sample ID: 480-185822-2 Matrix: Water

Job ID: 480-185822-1

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	44	10 - 120	06/11/21 14:34	06/14/21 16:55	20
Nitrobenzene-d5 (Surr)	74	26 - 120	06/11/21 14:34	06/14/21 16:55	20
Phenol-d5 (Surr)	28	11 - 120	06/11/21 14:34	06/14/21 16:55	20
p-Terphenvl-d14	89	64 - 127	06/11/21 14:34	06/14/21 16:55	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.026	J	0.050	0.016	ug/L		06/13/21 08:25	06/13/21 23:31	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:25	06/13/21 23:31	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:25	06/13/21 23:31	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:25	06/13/21 23:31	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:25	06/13/21 23:31	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:25	06/13/21 23:31	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:25	06/13/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 131	06/13/21 08:25	06/13/21 23:31	1
Nitrobenzene-d5	72		54 - 134	06/13/21 08:25	06/13/21 23:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	20		4.0	1.0	ug/L			06/10/21 15:39	1
Method: 6010C - Metals (ICP)									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	32.9		0.050	0.019	mg/L		06/15/21 16:11	06/16/21 14:23	1
General Chemistry									
Amaluta	Desult	Overlifien	-	MDI	11	D	Duewewe	A so a la sura al	DILEAS

Analyte	Result	Qualifier	RL	WDL	Unit	U	Prepared	Analyzed	DirFac
Sulfate	1650		40.0	7.0	mg/L			06/12/21 10:02	20
Ammonia	1.1		0.020	0.0090	mg/L			06/11/21 08:51	1
Cyanide, Total	0.0077	J F1	0.010	0.0050	mg/L		06/14/21 12:20	06/14/21 15:58	1
Nitrate as N	0.041	J	0.050	0.020	mg/L			06/10/21 16:09	1
Alkalinity, Total	625		5.0	0.79	mg/L			06/11/21 01:09	1
Ferrous Iron	0.27	HF J	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-C11 060921 Date Collected: 06/09/21 10:40 Date Received: 06/10/21 08:00

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

Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.82	ug/L			06/11/21 13:06	2
Bromoform	ND		2.0	0.52	ug/L			06/11/21 13:06	2
Chlorodibromomethane	ND		2.0	0.64	ug/L			06/11/21 13:06	2
Chloroform	ND		2.0	0.68	ug/L			06/11/21 13:06	2
Dichlorobromomethane	ND		2.0	0.78	ug/L			06/11/21 13:06	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/11/21 13:06	2
Toluene	ND		2.0	1.0	ug/L			06/11/21 13:06	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/11/21 13:06	2

Matrix: Water

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Lab Sample ID: 480-185822-3

Client Sample ID: MW-C11 060921 Date Collected: 06/09/21 10:40 Date Received: 06/10/21 08:00

Lab Sample ID: 480-185822-3 Matrix: Water

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					06/11/21 13:06	2
4-Bromofluorobenzene (Surr)	108		73 - 120					06/11/21 13:06	2
Dibromofluoromethane (Surr)	109		75 - 123					06/11/21 13:06	2
Toluene-d8 (Surr)	104		80 - 120					06/11/21 13:06	2
Method: 8270D LL - Semivol	atile Organic	Compoun	ds by GC/M	S - Low I	evel				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.5	J	10	0.72	ug/L		06/11/21 14:34	06/14/21 17:23	20
Acenaphthylene	ND		6.0	1.1	ug/L		06/11/21 14:34	06/14/21 17:23	20
Anthracene	ND		10	0.68	ug/L		06/11/21 14:34	06/14/21 17:23	20
Chrysene	ND		10	1.5	ug/L		06/11/21 14:34	06/14/21 17:23	20
Fluoranthene	ND		10	1.6	ug/L		06/11/21 14:34	06/14/21 17:23	20
Fluorene	ND		10	1.2	ug/L		06/11/21 14:34	06/14/21 17:23	20
Naphthalene	ND		20	1.3	ug/L		06/11/21 14:34	06/14/21 17:23	20
Phenanthrene	ND		4.0	1.2	ug/L		06/11/21 14:34	06/14/21 17:23	20
Pyrene	ND		10	1.5	ug/L		06/11/21 14:34	06/14/21 17:23	20
Surrogate	%Recoverv	Qualifier	Limits				Prepared	Analvzed	Dil Fac
2.4.6-Tribromophenol (Surr)			24 - 146				06/11/21 14:34	06/14/21 17:23	20
2-Fluorobiphenvl	84		37 - 120				06/11/21 14:34	06/14/21 17:23	20
2-Fluorophenol (Surr)	36		10 - 120				06/11/21 14:34	06/14/21 17:23	20
Nitrobenzene-d5 (Surr)	67		26 - 120				06/11/21 14:34	06/14/21 17:23	20
Phenol-d5 (Surr)	28		11 - 120				06/11/21 14:34	06/14/21 17:23	20
p-Terphenyl-d14	83		64 - 127				06/11/21 14:34	06/14/21 17:23	20
Mothod: 8270E SIM - Somiye	alatilo Organi	c Compou	nde (GC/MS	SIM)					
Analyte	Result	Qualifier		мп	Unit	П	Prenared	Analyzod	Dil Fac
Benzolalanthracene		UJ	0.050	0.016			06/13/21 08:25	06/13/21 23:52	1
Benzolalpyrene	ND		0.050	0.022	ug/L		06/13/21 08:25	06/13/21 23:52	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:25	06/13/21 23:52	1
Benzola h ilpervlene	ND		0.050	0.035	ua/l		06/13/21 08:25	06/13/21 23:52	
Benzo[k]fluoranthene	ND		0.050	0.028	ua/l		06/13/21 08:25	06/13/21 23:52	1
Dibenz(a h)anthracene	ND		0.050	0.020	ua/l		06/13/21 08:25	06/13/21 23:52	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:25	06/13/21 23:52	1
Surromata	0/ D	Qualifier	l insit-				Duonousd	Analyzad	
Surrogale		Quaimer					Prepared	Analyzeu	
2-Fluorobiprieriyi	02		25-131				06/13/21 08:25	06/13/21 23.52	1
Nitrobenzene-d5	82		54 - 134				06/13/21 08:25	06/13/21 23:52	1
Method: RSK-175 - Dissolve	d Gases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	380		88	22	ug/L			06/10/21 14:04	22
Method: 6010C - Metals (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								-	

Iron	26.8		0.050	0.019	mg/L	06/15/21 16:11	06/16/21 14:38	1
General Chemistry								
Analyte	Result	Qualifier	RL	MDL	Unit	D Prepared	Analyzed	Dil Fac
Sulfate	3300		100	17.5	mg/L		06/12/21 10:20	50
Ammonia	6.9		0.10	0.045	mg/L		06/11/21 08:52	5
Cyanide, Total	0.017		0.010	0.0050	mg/L	06/14/21 12:20	06/14/21 16:01	1

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Client Sample Results

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-C11 060921 Date Collected: 06/09/21 10:40 Date Received: 06/10/21 08:00

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.024	J	0.050	0.020	mg/L			06/10/21 16:10	1
Alkalinity, Total	830		5.0	0.79	mg/L			06/11/21 01:20	1
Ferrous Iron	0.082	J HF	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-25S 060921 Date Collected: 06/09/21 10:05 Date Received: 06/10/21 08:00

Lab Sample ID:	480-185822-	4
	Matrix: Wate	ł

Analyzed

06/11/21 13:34

Dil Fac

1

D

Prepared

Method: 8260C - Volatile Organ	nic Compo	unds by GC/	MS		
Analyte	Result	Qualifier	RL	MDL	Unit
Benzene	ND		1.0	0.41	ug/L
Bromoform	ND		1.0	0.26	ug/L

Bromoform	ND	1.0	0.26 ug/L	06/11/21 13:34	1
Chlorodibromomethane	ND	1.0	0.32 ug/L	06/11/21 13:34	1
Chloroform	ND	1.0	0.34 ug/L	06/11/21 13:34	1
Dichlorobromomethane	ND	1.0	0.39 ug/L	06/11/21 13:34	1
Ethylbenzene	ND	1.0	0.74 ug/L	06/11/21 13:34	1
Toluene	ND	1.0	0.51 ug/L	06/11/21 13:34	1
Xylenes, Total	ND	2.0	0.66 ug/L	06/11/21 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		06/11/21 13:34	1
4-Bromofluorobenzene (Surr)	98		73 - 120		06/11/21 13:34	1
Dibromofluoromethane (Surr)	107		75 - 123		06/11/21 13:34	1
Toluene-d8 (Surr)	98		80 - 120		06/11/21 13:34	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		06/11/21 14:34	06/14/21 17:50	1
Acenaphthylene ND	0.30	0.056	ug/L		06/11/21 14:34	06/14/21 17:50	1
Anthracene ND	0.50	0.034	ug/L		06/11/21 14:34	06/14/21 17:50	1
Chrysene ND	0.50	0.074	ug/L		06/11/21 14:34	06/14/21 17:50	1
Fluoranthene ND	0.50	0.080	ug/L		06/11/21 14:34	06/14/21 17:50	1
Fluorene ND	0.50	0.058	ug/L		06/11/21 14:34	06/14/21 17:50	1
Naphthalene ND	1.0	0.064	ug/L		06/11/21 14:34	06/14/21 17:50	1
Phenanthrene 0.099	JB 0.20 U 0.20	0.062	ug/L		06/11/21 14:34	06/14/21 17:50	1
Pyrene ND	0.50	0.076	ug/L		06/11/21 14:34	06/14/21 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92	·	24 - 146	06/11/21 14:34	06/14/21 17:50	1
2-Fluorobiphenyl	84		37 - 120	06/11/21 14:34	06/14/21 17:50	1
2-Fluorophenol (Surr)	35		10 - 120	06/11/21 14:34	06/14/21 17:50	1
Nitrobenzene-d5 (Surr)	78		26 - 120	06/11/21 14:34	06/14/21 17:50	1
Phenol-d5 (Surr)	26		11 - 120	06/11/21 14:34	06/14/21 17:50	1
p-Terphenyl-d14	72		64 - 127	06/11/21 14:34	06/14/21 17:50	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	UJ	0.050	0.016	ug/L		06/13/21 08:25	06/14/21 00:13	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:25	06/14/21 00:13	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:25	06/14/21 00:13	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:25	06/14/21 00:13	1

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Lab Sample ID: 480-185822-3 Matrix: Water

Client Sample ID: MW-25S 060921 Date Collected: 06/09/21 10:05 Date Received: 06/10/21 08:00

Lab Sample ID: 480-185822-4 Matrix: Water

Lab Sample ID: 480-185822-5

Matrix: Water

Method: 8270E SIM - Semivola	atile Organi	c Compou	nds (GC/MS	SIM) (Co	ontinued	1)			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:25	06/14/21 00:13	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:25	06/14/21 00:13	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:25	06/14/21 00:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	122		25 - 131				06/13/21 08:25	06/14/21 00:13	1
Nitrobenzene-d5	100		54 - 134				06/13/21 08:25	06/14/21 00:13	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			06/10/21 15:58	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	48.9		0.050	0.019	mg/L		06/15/21 16:11	06/16/21 14:42	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	171		40.0	7.0	mg/L			06/12/21 10:38	20
Ammonia	ND		0.020	0.0090	mg/L			06/11/21 08:52	1
Cyanide, Total	0.015		0.010	0.0050	mg/L		06/14/21 12:20	06/14/21 16:02	1
Nitrate as N	0.055		0.050	0.020	mg/L			06/10/21 17:55	1
Alkalinity, Total	566		5.0	0.79	mg/L			06/11/21 01:28	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: MW-28S 060921 Date Collected: 06/09/21 12:15

Date Received: 06/10/21 08:00

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

	iganic oompo								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/11/21 13:56	1
Bromoform	ND		1.0	0.26	ug/L			06/11/21 13:56	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			06/11/21 13:56	1
Chloroform	ND		1.0	0.34	ug/L			06/11/21 13:56	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			06/11/21 13:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/11/21 13:56	1
Toluene	ND		1.0	0.51	ug/L			06/11/21 13:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/11/21 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120			-		06/11/21 13:56	1
4-Bromofluorobenzene (Surr)	99		73 - 120					06/11/21 13:56	1
Dibromofluoromethane (Surr)	107		75 - 123					06/11/21 13:56	1
Toluene-d8 (Surr)	97		80 - 120					06/11/21 13:56	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		06/11/21 14:34	06/14/21 18:17	1
Acenaphthylene	ND		0.30	0.056	ug/L		06/11/21 14:34	06/14/21 18:17	1
Anthracene	ND		0.50	0.034	ug/L		06/11/21 14:34	06/14/21 18:17	1

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Client Sample ID: MW-28S 060921 Date Collected: 06/09/21 12:15 Date Received: 06/10/21 08:00

Nitrate as N

Ferrous Iron

Alkalinity, Total

Method: 8270D LL - Semivolat	tile Organic	Compound	s by GC/M	S - Low	Level (C	ontinu	ed)		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.50	0.074	ug/L		06/11/21 14:34	06/14/21 18:17	1
Fluoranthene	ND		0.50	0.080	ug/L		06/11/21 14:34	06/14/21 18:17	1
Fluorene	ND		0.50	0.058	ug/L		06/11/21 14:34	06/14/21 18:17	1
Naphthalene	ND		1.0	0.064	ug/L		06/11/21 14:34	06/14/21 18:17	1
Phenanthrene	0.079	JB 0.20 U	0.20	0.062	ug/L		06/11/21 14:34	06/14/21 18:17	1
Pyrene	ND		0.50	0.076	ug/L		06/11/21 14:34	06/14/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		24 - 146				06/11/21 14:34	06/14/21 18:17	1
2-Fluorobiphenyl	89		37 - 120				06/11/21 14:34	06/14/21 18:17	1
2-Fluorophenol (Surr)	47		10 - 120				06/11/21 14:34	06/14/21 18:17	1
Nitrobenzene-d5 (Surr)	83		26 - 120				06/11/21 14:34	06/14/21 18:17	1
Phenol-d5 (Surr)	34		11 - 120				06/11/21 14:34	06/14/21 18:17	1
p-Terphenyl-d14	107		64 - 127				06/11/21 14:34	06/14/21 18:17	1
Method: 8270E SIM - Semivola	atile Organi	c Compound	ds (GC/MS	SIM)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND	UJ	0.050	0.016	ug/L		06/13/21 08:25	06/14/21 00:34	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:25	06/14/21 00:34	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:25	06/14/21 00:34	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:25	06/14/21 00:34	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:25	06/14/21 00:34	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:25	06/14/21 00:34	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:25	06/14/21 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		25 - 131				06/13/21 08:25	06/14/21 00:34	1
Nitrobenzene-d5	93		54 - 134				06/13/21 08:25	06/14/21 00:34	1
Method: RSK-175 - Dissolved	Gases (GC))							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	3000		88	22	ug/L			06/10/21 16:36	22
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.8		0.050	0.019	mg/L		06/15/21 16:11	06/16/21 14:46	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac
Sulfate	9.5		10.0	1.7	mg/L			06/12/21 10:56	5
Ammonia	0.67	-	0.020	0.0090	mg/L			06/11/21 08:55	1
Cyanide, Total	0.0090	J	0.010	0.0050	mg/L		06/14/21 12:20	06/14/21 16:07	1

Matrix: Water

Lab Sample ID: 480-185822-5

06/11/21 16:10 1

06/18/2021

1

1

06/10/21 17:59

06/11/21 01:35

Eurofins TestAmerica, Buffalo

0.050

5.0

0.10

0.32

275

ND HF UJ

0.020 mg/L

0.79 mg/L

0.075 mg/L

Client Sample ID: MW-24S 060921 Date Collected: 06/09/21 12:35 Date Received: 06/10/21 08:00

Lab Sample ID: 480-185822-6 Matrix: Water

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/11/21 14:18	1
Bromoform	ND		1.0	0.26	ug/L			06/11/21 14:18	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			06/11/21 14:18	1
Chloroform	ND		1.0	0.34	ug/L			06/11/21 14:18	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			06/11/21 14:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/11/21 14:18	1
Toluene	ND		1.0	0.51	ug/L			06/11/21 14:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/11/21 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120			-		06/11/21 14:18	1
4-Bromofluorobenzene (Surr)	103		73 - 120					06/11/21 14:18	1
Dibromofluoromethane (Surr)	106		75 - 123					06/11/21 14:18	1
Toluene-d8 (Surr)	99		80 - 120					06/11/21 14:18	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		06/11/21 14:34	06/14/21 18:44	1
Acenaphthylene	ND		0.30	0.056	ug/L		06/11/21 14:34	06/14/21 18:44	1
Anthracene	ND		0.50	0.034	ug/L		06/11/21 14:34	06/14/21 18:44	1
Chrysene	ND		0.50	0.074	ug/L		06/11/21 14:34	06/14/21 18:44	1
Fluoranthene	ND		0.50	0.080	ug/L		06/11/21 14:34	06/14/21 18:44	1
Fluorene	ND		0.50	0.058	ug/L		06/11/21 14:34	06/14/21 18:44	1
Naphthalene	ND		1.0	0.064	ug/L		06/11/21 14:34	06/14/21 18:44	1
Phenanthrene	0.090	JB 0.20 U	0.20	0.062	ug/L		06/11/21 14:34	06/14/21 18:44	1
Pyrene	ND		0.50	0.076	ug/L		06/11/21 14:34	06/14/21 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		24 - 146	06/11/21 14:34	06/14/21 18:44	1
2-Fluorobiphenyl	88		37 - 120	06/11/21 14:34	06/14/21 18:44	1
2-Fluorophenol (Surr)	49		10 - 120	06/11/21 14:34	06/14/21 18:44	1
Nitrobenzene-d5 (Surr)	80		26 - 120	06/11/21 14:34	06/14/21 18:44	1
Phenol-d5 (Surr)	36		11 - 120	06/11/21 14:34	06/14/21 18:44	1
p-Terphenyl-d14	98		64 - 127	06/11/21 14:34	06/14/21 18:44	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 U	JJ	0.050	0.016	ug/L		06/13/21 08:25	06/14/21 00:55	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/13/21 08:25	06/14/21 00:55	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/13/21 08:25	06/14/21 00:55	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/13/21 08:25	06/14/21 00:55	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/13/21 08:25	06/14/21 00:55	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/13/21 08:25	06/14/21 00:55	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/13/21 08:25	06/14/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	117		25 - 131				06/13/21 08:25	06/14/21 00:55	1
Nitrobenzene-d5	97		54 - 134				06/13/21 08:25	06/14/21 00:55	1

Client Sample Results

Client Sample ID: MW-24S 060921 Date Collected: 06/09/21 12:35 Date Received: 06/10/21 08:00

Method: RSK-175 - Dissolved G	ases (GC))							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			06/10/21 15:01	1
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.050	0.019	mg/L		06/15/21 16:11	06/16/21 15:04	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	37.5		10.0	1.7	mg/L			06/12/21 11:14	5
Ammonia	0.030		0.020	0.0090	mg/L			06/11/21 08:58	1
Cyanide, Total	0.0091	J	0.010	0.0050	mg/L		06/14/21 12:20	06/14/21 16:08	1
Nitrate as N	0.13		0.050	0.020	mg/L			06/10/21 18:02	1
Alkalinity, Total	352		5.0	0.79	mg/L			06/11/21 02:35	1

0.10

0.075 mg/L

Client Sample ID: TRIP BLANK Date Collected: 06/09/21 00:00

Date Received: 06/10/21 08:00

Ferrous Iron

Lab Sample ID: 480-185822-7 Matrix: Water

06/11/21 16:10

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed		
Benzene	ND	1.0	0.41	ug/L			06/13/21 11:39		
Ethylbenzene	ND	1.0	0.74	ug/L			06/13/21 11:39		
Toluene	ND	1.0	0.51	ug/L			06/13/21 11:39		
Xylenes, Total	ND	2.0	0.66	ug/L			06/13/21 11:39		

ND HF UJ

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	77 - 120		06/13/21 11:39	1
4-Bromofluorobenzene (Surr)	100	73 - 120		06/13/21 11:39	1
Dibromofluoromethane (Surr)	98	75 - 123		06/13/21 11:39	1
Toluene-d8 (Surr)	96	80 - 120		06/13/21 11:39	1

Job ID: 480-185822-1

Lab Sample ID: 480-185822-6 Matrix: Water

1

Dil Fac

1

1

1

1

Sample Summary

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
480-185894-1	MW-C12 061021	Water	06/10/21 09:00	06/11/21 08:00	
480-185894-2	EQ BLANK	Water	06/10/21 09:10	06/11/21 08:00	
480-185894-3	TRIP BLANK	Water	06/10/21 00:00	06/11/21 08:00	

Client Sample ID: MW-C12 061021 Date Collected: 06/10/21 09:00 Date Received: 06/11/21 08:00

Lab Sample ID: 480-185894-1 Matrix: Water

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		1.0	0.41	ug/L			06/11/21 20:25	1
Bromoform	ND		1.0	0.26	ug/L			06/11/21 20:25	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			06/11/21 20:25	1
Chloroform	ND		1.0	0.34	ug/L			06/11/21 20:25	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			06/11/21 20:25	1
Ethylbenzene	10		1.0	0.74	ug/L			06/11/21 20:25	1
Toluene	ND		1.0	0.51	ug/L			06/11/21 20:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/11/21 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120			-		06/11/21 20:25	1
4-Bromofluorobenzene (Surr)	103		73 - 120					06/11/21 20:25	1
Dibromofluoromethane (Surr)	104		75 - 123					06/11/21 20:25	1
Toluene-d8 (Surr)	98		80 - 120					06/11/21 20:25	1

Method: 8270D LL - Semivolatile O	rganic Compounds	by GC/MS - Low Level
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Analyte	Result Qu	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	92	10	0.72	ug/L		06/11/21 14:34	06/14/21 19:12	20
Acenaphthylene	ND	6.0	1.1	ug/L		06/11/21 14:34	06/14/21 19:12	20
Anthracene	ND	10	0.68	ug/L		06/11/21 14:34	06/14/21 19:12	20
Chrysene	ND	10	1.5	ug/L		06/11/21 14:34	06/14/21 19:12	20
Fluoranthene	ND	10	1.6	ug/L		06/11/21 14:34	06/14/21 19:12	20
Fluorene	13	10	1.2	ug/L		06/11/21 14:34	06/14/21 19:12	20
Naphthalene	ND	20	1.3	ug/L		06/11/21 14:34	06/14/21 19:12	20
Phenanthrene	-1.4 - J E	3 4.0 U 4.0	1.2	ug/L		06/11/21 14:34	06/14/21 19:12	20
Pyrene	ND	10	1.5	ug/L		06/11/21 14:34	06/14/21 19:12	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		24 - 146	06/11/21 14:34	06/14/21 19:12	20
2-Fluorobiphenyl	87		37 - 120	06/11/21 14:34	06/14/21 19:12	20
2-Fluorophenol (Surr)	44		10 - 120	06/11/21 14:34	06/14/21 19:12	20
Nitrobenzene-d5 (Surr)	77		26 - 120	06/11/21 14:34	06/14/21 19:12	20
Phenol-d5 (Surr)	34		11 - 120	06/11/21 14:34	06/14/21 19:12	20
p-Terphenyl-d14	90		64 - 127	06/11/21 14:34	06/14/21 19:12	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		06/16/21 10:41	06/17/21 00:49	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/16/21 10:41	06/17/21 00:49	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/16/21 10:41	06/17/21 00:49	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/16/21 10:41	06/17/21 00:49	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/16/21 10:41	06/17/21 00:49	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/16/21 10:41	06/17/21 00:49	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/16/21 10:41	06/17/21 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	37		25 - 131				06/16/21 10:41	06/17/21 00:49	1
Nitrobenzene-d5	65		54 - 134				06/16/21 10:41	06/17/21 00:49	1

Client Sample Results

Matrix: Water

Lab Sample ID: 480-185894-1

Client: AECOM Project/Site: NYSEG - Former MGP Site - Ithaca, NY

Client Sample ID: MW-C12 061021 Date Collected: 06/10/21 09:00 Date Received: 06/11/21 08:00

Method: RSK-175 - Dissolved Ga	ases (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	620		44	11	ug/L			06/15/21 16:46	11
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.5		0.050	0.019	mg/L		06/16/21 16:04	06/17/21 16:39	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	237		10.0	1.7	mg/L			06/16/21 22:46	5
Ammonia	1.6	B	0.020	0.0090	mg/L			06/14/21 13:25	1
Cyanide, Total	0.017	J+	0.010	0.0050	mg/L		06/14/21 12:26	06/14/21 16:57	1
Nitrate as N	0.023	J	0.050	0.020	mg/L			06/11/21 17:54	1
Alkalinity, Total	502		5.0	0.79	mg/L			06/11/21 15:56	1
Ferrous Iron	ND	HF UJ	0.10	0.075	mg/L			06/11/21 16:10	1

Client Sample ID: EQ BLANK Date Collected: 06/10/21 09:10 Date Received: 06/11/21 08:00

Lab Sample ID: 480-185894-2 Matrix: Water

Date Received: 06/11/21 08	8:00						
Method: 8260C - Volatile	Organic Compounds by GC/MS						
Analyta	Beault Qualifier	ы	MDI Unit	П	Droparad	Apolyzod	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/11/21 20:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/11/21 20:48	1
Toluene	ND		1.0	0.51	ug/L			06/11/21 20:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/11/21 20:48	1

Surrogate	%Recovery C	Qualifier Limits	Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	105	77 - 120		06/11/21 20:48	1
4-Bromofluorobenzene (Surr)	105	73 - 120		06/11/21 20:48	1
Dibromofluoromethane (Surr)	106	75 - 123		06/11/21 20:48	1
Toluene-d8 (Surr)	100	80 - 120		06/11/21 20:48	1

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

Analyte	Result Qualif	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	0.50	0.036	ug/L		06/11/21 14:34	06/14/21 19:39	1
Acenaphthylene	ND	0.30	0.056	ug/L		06/11/21 14:34	06/14/21 19:39	1
Anthracene	ND	0.50	0.034	ug/L		06/11/21 14:34	06/14/21 19:39	1
Chrysene	ND	0.50	0.074	ug/L		06/11/21 14:34	06/14/21 19:39	1
Fluoranthene	ND	0.50	0.080	ug/L		06/11/21 14:34	06/14/21 19:39	1
Fluorene	ND	0.50	0.058	ug/L		06/11/21 14:34	06/14/21 19:39	1
Naphthalene	ND	1.0	0.064	ug/L		06/11/21 14:34	06/14/21 19:39	1
Phenanthrene	0.12 J ₿ 0	.20 U 0.20	0.062	ug/L		06/11/21 14:34	06/14/21 19:39	1
Pyrene	ND	0.50	0.076	ug/L		06/11/21 14:34	06/14/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		24 - 146	06/11/21 14:34	06/14/21 19:39	1
2-Fluorobiphenyl	106		37 - 120	06/11/21 14:34	06/14/21 19:39	1
2-Fluorophenol (Surr)	55		10 - 120	06/11/21 14:34	06/14/21 19:39	1
Nitrobenzene-d5 (Surr)	95		26 - 120	06/11/21 14:34	06/14/21 19:39	1
Phenol-d5 (Surr)	40		11 - 120	06/11/21 14:34	06/14/21 19:39	1
p-Terphenyl-d14	115		64 - 127	06/11/21 14:34	06/14/21 19:39	1

Eurofins TestAmerica, Buffalo

06/18/2021

Client Sample ID: EQ BLANK Date Collected: 06/10/21 09:10 Date Received: 06/11/21 08:00

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Job ID: 480-185894-1

Lab Sample ID: 480-185894-2 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.016	ug/L		06/16/21 10:41	06/17/21 01:10	1
Benzo[a]pyrene	ND		0.050	0.022	ug/L		06/16/21 10:41	06/17/21 01:10	1
Benzo[b]fluoranthene	ND		0.050	0.024	ug/L		06/16/21 10:41	06/17/21 01:10	1
Benzo[g,h,i]perylene	ND		0.050	0.035	ug/L		06/16/21 10:41	06/17/21 01:10	1
Benzo[k]fluoranthene	ND		0.050	0.028	ug/L		06/16/21 10:41	06/17/21 01:10	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/16/21 10:41	06/17/21 01:10	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.036	ug/L		06/16/21 10:41	06/17/21 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		25 - 131				06/16/21 10:41	06/17/21 01:10	1
Nitrobenzene-d5	76		54 - 134				06/16/21 10:41	06/17/21 01:10	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	J	0.010	0.0050	mg/L		06/14/21 12:26	06/14/21 17:01	1
Client Sample ID: TRI	P BLANK					La	ab Sample	ID: 480-185	5894-3

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			06/11/21 21:11	1	
Ethylbenzene	ND		1.0	0.74	ug/L			06/11/21 21:11	1	
Toluene	ND		1.0	0.51	ug/L			06/11/21 21:11	1	
Xylenes, Total	ND		2.0	0.66	ug/L			06/11/21 21:11	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					06/11/21 21:11	1	
4-Bromofluorobenzene (Surr)	106		73 - 120					06/11/21 21:11	1	

75 - 123

80 - 120

103

99

06/11/21 21:11

06/11/21 21:11

1

1

Appendix C

Support Documentation

Comments

No additional comments.

Receipt

The samples were received on 6/9/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.0° C, 3.2° C and 3.4° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-46S 060821 (480-185758-1). 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 were diluted due to color, appearance, and viscosity: MW-46S 060821 (480-185758-1) and MW-48S 060821 (480-185758-6). Elevated reporting limits (RL) are provided.

Method 8270D LL: The following sample was diluted due to the nature of the sample matrix: MW-46S 060821 (480-185758-1). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D LL: The following sample was diluted due to color, appearance, and viscosity: MW-47S 060821 (480-185758-8). Elevated reporting limits (RL) are provided.

Method 8270E SIM: The continuing calibration verification (CCV) associated with batch 460-783962 recovered above the upper control limit for Dibenz(a,h)anthracene, Indeno[1,2,3-cd]pyrene and Benzo[g,h,i]perylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E SIM: The continuing calibration verification (CCV) analyzed in batch 460-783966 was outside the method criteria for the following analyte(s): Benzo[a]anthracene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E SIM: Surrogate recovery for the following sample was outside the upper control limit: MW-33S 060821 (480-185758-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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 due to the abundance of non-target analytes: MW-46S 060821 (480-185758-1), MW-33S 060821 (480-185758-2), MW-45S 060821 (480-185758-3), MW-22S 060821 (480-185758-4), MW-48S 060821 (480-185758-6), MW-31S 060821 (480-185758-7) and MW-47S 060821 (480-185758-8). 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-46S 060821 (480-185758-1), MW-45S 060821 (480-185758-3), MW-48S 060821 (480-185758-6) and MW-47S 060821 (480-185758-8). 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.

Metals

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

General Chemistry

Methods 335.4, 9012B, SM 4500 CN G: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-584830 and analytical batch 480-584936 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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-46S 060821 (480-185758-1), MW-33S 060821 (480-185758-2), MW-45S 060821 (480-185758-3), MW-22S 060821 (480-185758-4), MW-40 060821 (480-185758-5), MW-48S 060821 (480-185758-6), MW-31S 060821 (480-185758-7) and MW-47S 060821 (480-185758-8).

Methods 335.4, 9012B: The continuing calibration verification (CCV) associated with batch 480-585087 recovered above the upper

control limit for <AffectedAnalytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 480-585087/30).

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 I GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo	Job No.: 480-185758-1
SDG No.:	
Client Sample ID:	Lab Sample ID: <u>MB 480-584784/1-A</u>
Matrix: Water	Lab File ID: Y02822686.D
Analysis Method: <u>8270D LL</u>	Date Collected:
Extract. Method: 3510C	Date Extracted: 06/10/2021 08:27
Sample wt/vol: 1000(mL)	Date Analyzed: 06/14/2021 20:07
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.: 585216	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	ND		1.0	0.064
85-01-8	Phenanthrene	0.0912	J	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)	97		24-146
321-60-8	2-Fluorobiphenyl	92		37-120
367-12-4	2-Fluorophenol (Surr)	48		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	85		26-120
4165-62-2	Phenol-d5 (Surr)	33		11-120
1718-51-0	p-Terphenyl-d14	109		64-127

FORM VII GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edi	.son Job No.: <u>480-185758-1</u>
SDG No.:	
Lab Sample ID: <u>CCVIS 460-783962/2</u>	Calibration Date: 06/13/2021 16:23
Instrument ID: CBNAMS13	Calib Start Date: 04/28/2021 12:07
GC Column: <u>Rtxi-5Sil MS</u> ID:	0.25(mm) Calib End Date: 04/28/2021 13:52
Lab File ID: <u>C7679.D</u>	Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin2		0.5859		229	200	14.7	20.0
N-Nitrosodimethylamine	Ave	0.6957	0.6849		98.5	100	-1.5	20.0
Bis(2-chloroethyl)ether	Ave	1.240	1.185	0.7000	19.1	20.0	-4.4	20.0
Naphthalene	Ave	1.041	1.033	0.7000	19.8	20.0	-0.8	20.0
Acenaphthylene	Ave	1.888	1.873	0.9000	19.8	20.0	-0.8	20.0
Acenaphthene	Ave	1.211	1.166	0.9000	19.3	20.0	-3.7	20.0
Fluorene	Ave	1.418	1.309	0.9000	18.5	20.0	-7.7	20.0
4,6-Dinitro-2-methylphenol	Qua		0.0262	0.0100	82.2	200	-58.9*	20.0
Hexachlorobenzene	Ave	0.3059	0.3391	0.1000	22.2	20.0	10.8	20.0
Pentachlorophenol	Qua		0.1053	0.0500	108	100	8.2	20.0
Phenanthrene	Ave	1.178	1.152	0.7000	19.6	20.0	-2.2	20.0
Anthracene	Ave	1.001	1.007	0.7000	20.1	20.0	0.6	20.0
Fluoranthene	Ave	1.160	1.116	0.6000	19.2	20.0	-3.8	20.0
Pyrene	Ave	1.613	1.607	0.6000	19.9	20.0	-0.4	20.0
Benzo[a]anthracene	Ave	1.341	1.419	0.8000	21.2	20.0	5.8	20.0
Chrysene	Ave	1.521	1.446	0.7000	19.0	20.0	-4.9	20.0
Benzo[b]fluoranthene	Ave	1.444	1.358	0.0100	18.8	20.0	-6.0	20.0
Benzo[k]fluoranthene	Ave	1.540	1.464	0.7000	19.0	20.0	-5.0	20.0
Benzo[a]pyrene	Ave	1.140	1.149	0.7000	20.2	20.0	0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.198	1.665	0.5000	27.8	20.0	39.0*	20.0
Dibenz(a,h)anthracene	Ave	1.207	1.658	0.4000	27.5	20.0	37.3*	20.0
Benzo[g,h,i]perylene	Ave	1.344	1.869	0.5000	27.8	20.0	39.0*	20.0
Nitrobenzene-d5	Ave	0.3664	0.3835		419	400	4.7	20.0
2-Fluorobiphenyl	Ave	1.765	1.865		423	400	5.6	20.0
2,4,6-Tribromophenol	Ave	0.2007	0.1829		365	400	-8.9	20.0
Terphenyl-d14	Ave	1.060	1.054		398	400	-0.6	20.0

FORM VII GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name:	Eurofins TestAmerica, Edison	Job No.: 480-185758-1
SDG No.:		
Lab Sample	e ID: <u>CCVIS 460-783966/2</u>	Calibration Date: 06/13/2021 15:42
Instrument	ID: CBNAMS9	Calib Start Date: 04/21/2021 10:00
GC Column	: <u>Rtxi-5Sil MS</u> ID: <u>0.25(mm)</u>	Calib End Date: 04/21/2021 11:54
Lab File I	ID: h266301.d	Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	°∂D	MAX %D
1,4-Dioxane	Ave	0.4283	0.4656		217	200	8.7	20.0
N-Nitrosodimethylamine	Lin2		0.4780		95.2	100	-4.8	20.0
Bis(2-chloroethyl)ether	Ave	1.068	0.9069	0.7000	17.0	20.0	-15.1	20.0
Naphthalene	Ave	1.105	1.040	0.7000	18.8	20.0	-5.8	20.0
Acenaphthylene	Ave	3.068	2.794	0.9000	18.2	20.0	-8.9	20.0
Acenaphthene	Ave	1.450	1.169	0.9000	16.1	20.0	-19.4	20.0
Fluorene	Ave	1.672	1.710	0.9000	20.5	20.0	2.3	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1356	0.0733	0.0100	108	200	-45.9*	20.0
Hexachlorobenzene	Ave	0.5779	0.5925	0.1000	20.5	20.0	2.5	20.0
Pentachlorophenol	Qua		0.1183	0.0500	50.6	100	-49.4*	20.0
Phenanthrene	Ave	1.896	0.9376	0.7000	9.89	20.0	-50.6*	20.0
Anthracene	Ave	1.358	1.169	0.7000	17.2	20.0	-13.9	20.0
Fluoranthene	Ave	1.757	1.195	0.6000	13.6	20.0	-32.0*	20.0
Pyrene	Ave	2.584	2.047	0.6000	15.8	20.0	-20.8*	20.0
Benzo[a]anthracene	Ave	1.887	1.500	0.8000	15.9	20.0	-20.5*	20.0
Chrysene	Ave	1.898	1.906	0.7000	20.1	20.0	0.4	20.0
Benzo[b]fluoranthene	Ave	1.759	1.409		16.0	20.0	-19.9	20.0
Benzo[k]fluoranthene	Ave	1.892	1.961	0.7000	20.7	20.0	3.6	20.0
Benzo[a]pyrene	Ave	1.482	1.336	0.7000	18.0	20.0	-9.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.596	1.682	0.5000	21.1	20.0	5.4	20.0
Dibenz(a,h)anthracene	Ave	1.644	1.779	0.4000	21.6	20.0	8.2	20.0
Benzo[g,h,i]perylene	Ave	1.721	1.621	0.5000	18.8	20.0	-5.8	20.0
Nitrobenzene-d5	Ave	0.4139	0.4202		406	400	1.5	20.0
2-Fluorobiphenyl	Ave	1.967	2.703		549	400	37.4*	20.0
2,4,6-Tribromophenol	Ave	0.5035	0.3107		247	400	-38.3*	20.0
Terphenyl-d14	Ave	0.9634	0.9086		377	400	-5.7	20.0

FORM II GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 480-185758-1

Level: Low

SDG No.:

Matrix: Water

GC Column (1): Rtxi-5Sil M ID: 0.25(mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #
MW-46S 060821	480-185758-1	79	125
MW-33S 060821	480-185758-2	148 S1+	167 S1+
MW-45S 060821	480-185758-3	95	100
MW-22S 060821	480-185758-4	90	106
MW-40 060821	480-185758-5	94	101
MW-485 060821	480-185758-6	98	84
MW-31S 060821	480-185758-7	96	84
MW-47S 060821	480-185758-8	98	88
DUP	480-185758-9	101	87
	MB 460-783925/1-A	88	95
	LCS 460-783925/2-A	75	60
	LCSD 460-783925/3-A	97	113
MW-22S 060821 MS	480-185758-4 MS	116	133 S1+
MW-22S 060821 MSD	480-185758-4 MSD	114	133 S1+

QC LIMITS 54-134 NBZ = Nitrobenzene-d5 25-131 FBP = 2-Fluorobiphenyl

FORM II 8270E SIM

 $[\]ensuremath{\texttt{\#}}$ Column to be used to flag recovery values

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo						Job No.: <u>480-185758-1</u>						
SDG No	.:											
Analyst: JPS							Batch Start Date: 06/10/2021					
Reporting Units: mg/L					Analytical Batch No.: 584966							
Sample Number	QC Type	Time	Analyte		Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent		
1	ICV	16:30	Alkalinity,	Total	104.8	100	105	90-110		Alk 100 ICV_00100		
26	CCV	19:35	Alkalinity,	Total	98.80	100	99	90-110		WC_ALK_CCV_00063		
27	CCB	19:40	Alkalinity,	Total	ND							
38	CCV	20:54	Alkalinity,	Total	99.92	100	100	90-110		WC_ALK_CCV_00063		
39	CCB	21:00	Alkalinity,	Total	ND							
50	CCV	22:32	Alkalinity,	Total	101.5	100	102	90-110		WC_ALK_CCV_00063		
51	CCB	22:39	Alkalinity,	Total	0.800				J			

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Na	ab Name: Eurofins TestAmerica, Buffalo)	Job No.: 480-185758-1							
SDG No	.:											
Analys	t: JPS					Batch Start Date: 06/11/2021						
Reporting Units: mg/L					Analytical Batch No.: 585189							
Sample Number	QC Type	Time	Analyte		Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent		
1	ICV	12:13	Alkalinity,	Total	105.6	100	106	90-110		Alk 100 ICV_00100		
2	CCV	12:19	Alkalinity,	Total	99.68	100	100	90-110		WC_ALK_CCV_00063		
3	CCB	12:25	Alkalinity,	Total	ND							
14	CCV	13:43	Alkalinity,	Total	102.2	100	102	90-110		WC_ALK_CCV_00063		
15	CCB	13:48	Alkalinity,	Total	ND							
26	CCV	15:16	Alkalinity,	Total	99.52	100	100	90-110		WC_ALK_CCV_00063		
27	CCB	15:21	Alkalinity,	Total	ND							
50	CCV	18:10	Alkalinity,	Total	103.4	100	103	90-110		WC_ALK_CCV_00063		
51	CCB	18:17	Alkalinity,	Total	1.12				J			
62	CCV	19:41	Alkalinity,	Total	99.60	100	100	90-110		WC_ALK_CCV_00063		
63	CCB	19:47	Alkalinity,	Total	ND							

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN METHOD BLANK GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: <u>480-185758-1</u>

SDG No.:

Method	Lab Sample ID	Analyte			Resu	lt	Qual	Un	its	RI	Dil
Batch ID:	585059 Date:	06/11/2021	23:19								
300.0	MB 480-585059/4	Sulfate				ND		mg	/L	2.0	1
Batch ID:	585059 Date:	06/12/2021	06:28								
300.0	MB 480-585059/28	Sulfate				ND		mg	/L	2.0	1
Batch ID:	584793 Date:	06/10/2021	07:58								
350.1	MB 480-584793/3	Ammonia				ND		mg	/L	0.020	1
Batch ID:	584793 Date:	06/10/2021	08:39								
350.1	MB 480-584793/51	Ammonia				ND		mg	/L	0.020	1
Batch ID:	584936 Date:	06/10/2021	16:37	Prep Bat	ch: 584	830	Da	ate:	06/10/2021	11:24	
9012B	MB 480-584830/1-	A Cyanide,	Total		0.008	11	J	mg	/L	0.010	1
Batch ID:	585087 Date:	06/11/2021	14:22	Prep Bat	ch: 585	039	Da	ate:	06/11/2021	12:03	
9012B	MB 480-585039/1-	A Cyanide,	Total		0.009	94	J	mg	/L	0.010	1
Batch ID:	584966 Date:	06/10/2021	19:45								
SM 2320B	MB 480-584966/28	Alkalini	ty, Total			ND		mg	/L	5.0	1
Batch ID:	585189 Date:	06/11/2021	12:29								
SM 2320B	MB 480-585189/4	Alkalini	ty, Total			ND		mg	/L	5.0	1
Batch ID:	585189 Date:	06/11/2021	18:23								
SM 2320B	MB 480-585189/52	Alkalini	ty, Total			ND		mg	/L	5.0	1
Batch ID:	585104 Date:	06/11/2021	16:10								
SM 3500 FE D	MB 480-585104/3	Ferrous	Iron			ND		mg	/L	0.10	1

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Nar	Lab Name: Eurofins TestAmerica, Buffalo					Job No.: 480-185758-1						
SDG No	.:											
Analys	t: ALT					Batch Start Date: 06/11/2021						
Reporting Units: mg/L					Analytical Batch No.: 585087							
Sample Number	QC Type	Time	Analyte		Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent		
1	CCV	14:18	Cyanide,	Total	0.273	0.250	109	90-110		CN CCV_01478		
2	CCB	14:19	Cyanide,	Total	ND							
13	CCV	14:38	Cyanide,	Total	0.273	0.250	109	90-110		CN CCV_01478		
14	CCB	14:39	Cyanide,	Total	ND							
25	CCV	14:55	Cyanide,	Total	0.276	0.250	110	90-110		CN CCV_01478		
26	CCB	14:56	Cyanide,	Total	ND							
30	CCV	15:02	Cyanide,	Total	0.279	0.250	112	90-110		CN CCV_01478		
31	CCB	15:04	Cyanide,	Total	ND							

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN MATRIX SPIKE SAMPLE RECOVERY GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185758-1

SDG No.:

Matrix: Water

Method Lab Sample ID Analyte	Result C	Unit	Spike Amount	Pct. Rec.	Limits	R RPD Lim	PD it Q
Batch ID: 585059 Date: 06/12/2021 05:16							
300.0 480-185758-2 Sulfate	43.4	mg/L					
300.0 480-185758-2 Sulfate MS	285.3	mg/L	250	97	80-120		
Batch ID: 585059 Date: 06/12/2021 08:33							
300.0 480-185758-8 Sulfate	ND	mg/L					
300.0 480-185758-8 Sulfate MS	245.1	mg/L	250	98	80-120		
Batch ID: 584793 Date: 06/10/2021 08:10							
350.1 480-185758-6 Ammonia	1.4	mg/L					
350.1 480-185758-6 Ammonia MS	1.66	mg/L	0.200	130	90-110		4
Batch ID: 584793 Date: 06/10/2021 08:50							
350.1 480-185758-1 Ammonia	3.3	mg/L					
350.1 480-185758-1 Ammonia MS	3.80	mg/L	0.400	125	90-110		4
Batch ID: 584936 Date: 06/10/2021 16:44	Prep Batch:	584830	Date: 0	6/10/20	021 11:24		
9012B 480-185758-4 Cyanide, Total	0.060	mg/L					B F1 F2
9012B 480-185758-4 Cyanide, Total MS	0.0814	mg/L	0.100	21	90-110		F1
Batch ID: 584936 Date: 06/10/2021 17:13	Prep Batch:	584830	Date: 0	6/10/20	021 11:24		
9012B 480-185758-5 Cyanide, Total	0.0073 J	mg/L					B F1 ^+
9012B 480-185758-5 Cyanide, Total MS	0.0112	mg/L	0.100	4	90-110		F1 ^+
Batch ID: 585104 Date: 06/11/2021 16:10							
SM 3500 480-185758-6 Ferrous Iron FE D	ND	mg/L					HF
SM 3500 480-185758-6 Ferrous Iron FE D MS	0.992	mg/L	1.00	99	70-130		
Batch ID: 585104 Date: 06/11/2021 16:10							
SM 3500 480-185758-7 Ferrous Iron FE D	0.12	mg/L					HF
SM 3500 480-185758-7 Ferrous Iron FE D MS	1.17	mg/L	1.00	105	70-130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN MATRIX SPIKE DUPLICATE SAMPLE RECOVERY GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185758-1

SDG No.:

Matrix: Water

Method Lab Sample ID Analyte	Result C Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 585059 Date: 06/12/2021 08:51 300.0 480-185758-8 Sulfate MSD	246.2 mg/L	250	98	80-120	0	15	
Batch ID: 584936 Date: 06/10/2021 16:46 9012B 480-185758-4 Cyanide, Total MSD	Prep Batch: 584830 0.0681 mg/L	Date: 0 0.100	6/10/20 8	90-110	18	15 :	F1 F2

Calculations are performed before rounding to avoid round-off errors in calculated results.

Comments

No additional comments.

Receipt

The samples were received on 6/10/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 2.9° C and 3.0° C.

GC/MS VOA

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-23S 060921 (480-185822-1). 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-C16 060921 (480-185822-2) and MW-C11 060921 (480-185822-3). 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 were diluted due to color, appearance, and viscosity: MW-23S 060921 (480-185822-1), MW-C16 060921 (480-185822-2) and MW-C11 060921 (480-185822-3). Elevated reporting limits (RL) are provided.

Method 8270D LL: The following samples required a dilution due to the nature of the sample matrix: MW-23S 060921 (480-185822-1), MW-C16 060921 (480-185822-2) and MW-C11 060921 (480-185822-3). 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 8270E SIM: The continuing calibration verification (CCV) analyzed in batch 460-783966 was outside the method criteria for the following analyte(s): Benzo[a]anthracene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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 due to the abundance of non-target analytes: MW-23S 060921 (480-185822-1), MW-C16 060921 (480-185822-2), MW-C11 060921 (480-185822-3), MW-25S 060921 (480-185822-4), MW-28S 060921 (480-185822-5) and MW-24S 060921 (480-185822-6). 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: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-C11 060921 (480-185822-3). The reporting limits (RLs) have been adjusted proportionately.

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-23S 060921 (480-185822-1) and MW-28S 060921 (480-185822-5). 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.

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-23S 060921 (480-185822-1), MW-C16 060921 (480-185822-2), MW-C11 060921 (480-185822-3), MW-25S 060921 (480-185822-4), MW-28S 060921 (480-185822-5) and MW-24S 060921 (480-185822-6).

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 I GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo	Job No.: 480-185822-1
SDG No.:	
Client Sample ID:	Lab Sample ID: MB 480-585079/1-A
Matrix: Water	Lab File ID: Y02822675.D
Analysis Method: 8270D LL	Date Collected:
Extract. Method: 3510C	Date Extracted: 06/11/2021 14:34
Sample wt/vol: 1000(mL)	Date Analyzed: 06/14/2021 15:06
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.: 585216	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	ND		1.0	0.064
85-01-8	Phenanthrene	0.0897	J	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)	70		24-146
321-60-8	2-Fluorobiphenyl	84		37-120
367-12-4	2-Fluorophenol (Surr)	44		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	78		26-120
4165-62-2	Phenol-d5 (Surr)	32		11-120
1718-51-0	p-Terphenyl-d14	100		64-127

FORM VII GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name:	Eurofins TestAmerica, Edison	Job No.: 480-185822-1
SDG No.:		
Lab Sample	e ID: <u>CCVIS 460-783966/2</u>	Calibration Date: 06/13/2021 15:42
Instrumen	ID: CBNAMS9	Calib Start Date: 04/21/2021 10:00
GC Column	: <u>Rtxi-5Sil MS</u> ID: <u>0.25(mm)</u>	Calib End Date: 04/21/2021 11:54
Lab File :	ID: h266301.d	Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4283	0.4656		217	200	8.7	20.0
N-Nitrosodimethylamine	Lin2		0.4780		95.2	100	-4.8	20.0
Bis(2-chloroethyl)ether	Ave	1.068	0.9069	0.7000	17.0	20.0	-15.1	20.0
Naphthalene	Ave	1.105	1.040	0.7000	18.8	20.0	-5.8	20.0
Acenaphthylene	Ave	3.068	2.794	0.9000	18.2	20.0	-8.9	20.0
Acenaphthene	Ave	1.450	1.169	0.9000	16.1	20.0	-19.4	20.0
Fluorene	Ave	1.672	1.710	0.9000	20.5	20.0	2.3	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1356	0.0733	0.0100	108	200	-45.9*	20.0
Hexachlorobenzene	Ave	0.5779	0.5925	0.1000	20.5	20.0	2.5	20.0
Pentachlorophenol	Qua		0.1183	0.0500	50.6	100	-49.4*	20.0
Phenanthrene	Ave	1.896	0.9376	0.7000	9.89	20.0	-50.6*	20.0
Anthracene	Ave	1.358	1.169	0.7000	17.2	20.0	-13.9	20.0
Fluoranthene	Ave	1.757	1.195	0.6000	13.6	20.0	-32.0*	20.0
Pyrene	Ave	2.584	2.047	0.6000	15.8	20.0	-20.8*	20.0
Benzo[a]anthracene	Ave	1.887	1.500	0.8000	15.9	20.0	-20.5*	20.0
Chrysene	Ave	1.898	1.906	0.7000	20.1	20.0	0.4	20.0
Benzo[b]fluoranthene	Ave	1.759	1.409		16.0	20.0	-19.9	20.0
Benzo[k]fluoranthene	Ave	1.892	1.961	0.7000	20.7	20.0	3.6	20.0
Benzo[a]pyrene	Ave	1.482	1.336	0.7000	18.0	20.0	-9.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.596	1.682	0.5000	21.1	20.0	5.4	20.0
Dibenz(a,h)anthracene	Ave	1.644	1.779	0.4000	21.6	20.0	8.2	20.0
Benzo[g,h,i]perylene	Ave	1.721	1.621	0.5000	18.8	20.0	-5.8	20.0
Nitrobenzene-d5	Ave	0.4139	0.4202		406	400	1.5	20.0
2-Fluorobiphenyl	Ave	1.967	2.703		549	400	37.4*	20.0
2,4,6-Tribromophenol	Ave	0.5035	0.3107		247	400	-38.3*	20.0
Terphenyl-d14	Ave	0.9634	0.9086		377	400	-5.7	20.0

5-IN MATRIX SPIKE SAMPLE RECOVERY GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185822-1

SDG No.:

Matrix: Water

Method Lab Sample ID Analyte	Result C Unit	Spike Pct. RPD Amount Rec. Limits RPD Limit	Q
Batch ID: 584988 Date: 06/11/2021 08:57			
350.1 480-185822-5 Ammonia	0.67 mg/L		
350.1 480-185822-5 Ammonia MS	0.853 mg/L	0.200 90 90-110	
Batch ID: 585344 Date: 06/14/2021 16:00	Prep Batch: 585273	Date: 06/14/2021 12:20	
9012B 480-185822-2 Cyanide, Total	0.0077 J mg/L		F1
9012B 480-185822-2 Cyanide, Total MS	0.0625 mg/L	0.100 55 90-110	F1
Batch ID: 585104 Date: 06/11/2021 16:10			
SM 3500 480-185822-1 Ferrous Iron FE D	ND mg/L		HF
SM 3500 480-185822-1 Ferrous Iron FE D MS	1.13 mg/L	1.00 113 70-130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN DUPLICATE GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185822-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID:	584988 Date:	06/11/2021 08:56						
350.1	MW-28S 060921	480-185822-5	Ammonia	0.67	mg/L			
350.1	MW-28S 060921	480-185822-5 DU	Ammonia	0.656	mg/L	3	20	
Batch ID:	585344 Date:	06/14/2021 15:57	Prep Batch: 585273	Date: 06/14/	/2021	12:20		
9012B	MW-23S 060921	480-185822-1	Cyanide, Total	0.0072	mg/L			J
9012B	MW-23S 060921	480-185822-1 DU	Cyanide, Total	0.00968	mg/L	30	15	J F5
Batch ID:	585104 Date:	06/11/2021 16:10						
SM 3500 FE	MW-23S 060921	480-185822-1	Ferrous Iron	ND	mg/L			
D SM 3500 FE D	MW-23S 060921	480-185822-1 DU	Ferrous Iron	ND	mg/L	NC	20	
Batch ID:	585104 Date:	06/11/2021 16:10						
SM 3500 FE	MW-C16 060921	480-185822-2	Ferrous Iron	0.27	mg/L			
D SM 3500 FE D	MW-C16 060921	480-185822-2 DU	Ferrous Iron	0.276	mg/L	2	20	
Batch ID:	585104 Date:	06/11/2021 16:10						
SM 3500 FE	MW-C11 060921	480-185822-3	Ferrous Iron	0.082	mg/L			J
D SM 3500 FE D	MW-C11 060921	480-185822-3 DU	Ferrous Iron	0.0939	mg/L	14	20	J
Batch ID:	585104 Date:	06/11/2021 16:10						
SM 3500 FE	MW-25S 060921	480-185822-4	Ferrous Iron	ND	mg/L			
D SM 3500 FE D	MW-25S 060921	480-185822-4 DU	Ferrous Iron	ND	mg/L	NC	20	
Batch ID:	585104 Date:	06/11/2021 16:10						
SM 3500 FE	MW-28S 060921	480-185822-5	Ferrous Iron	ND	mg/L			
D SM 3500 FE D	MW-28S 060921	480-185822-5 DU	Ferrous Iron	ND	mg/L	NC	20	
Batch ID:	585104 Date:	06/11/2021 16:10			-			
SM 3500 FE	MW-24S 060921	480-185822-6	Ferrous Iron	ND	mg/L			
D SM 3500 FE D	MW-24S 060921	480-185822-6 DU	Ferrous Iron	ND	mg/L	NC	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

13-IN ANALYSIS RUN LOG GENERAL CHEMISTRY

Lab Name: Eurofins	s Tes	tAme	erica, Buf	falc		Job	No	.:	480-	-1858	822-	1						_
SDG No.:																		_
Instrument ID: LAC	CHAT1					Met	hod	3	50.1	L								_
Start Date: 06/11/2021 08:43					End Date:			06/11/2021 09:20							_			
						Analvtes												
				N														
				H														
Lab	D	Т		3														
ID	F	P P																
		e	Time															
CCV 480-584988/1	1		08:43	X								1						
CCB 480-584988/2	1		08:44	X					+									
MB 480-584988/3	1	Т	08:45	X														
LCS 480-584988/4	1	Т	08:46	Х														
ZZZZZZ			08:46															
ZZZZZ			08:47															
ZZZZZ			08:48															
ZZZZZZ			08:49															
480-185822-1	1	Т	08:50	X														
480-185822-2	1	T	08:51	X		_			_									
480-185822-3	5	T	08:52	X		_			_		_							
480-185822-4	1	T	08:52	X					_									
CCP 480-584988/13	1		08:53	X					_									
480-185822-5	1	Ψ	08.55	× ×					_									
480-185822-5 DU	1	 Т	08:56	X					_									
480-185822-5 MS	1	T	08:57	X		_			-									
480-185822-6	1	Т	08:58	X		_												
ZZZZZ			08:58															
ZZZZZZ			08:59						-									
ZZZZZZ			09:00															
ZZZZZ			09:01															
ZZZZZ			09:02															
ZZZZZZ			09:03															
CCV 480-584988/25	1		09:04	Х														
CCB 480-584988/26	1		09:04	Х														
			09:05			_			_									
ZZZZZZ			09:06			_			_									
			09:07						_									
222222			09:08						_		_							
777777			09.09			_					_							
7.7.7.7.7.7.			09:10			_			-		_							
ZZZZZZ			09:11			-			-		_							
ZZZZZ			09:12			_												
ZZZZZZ			09:13			-			+									
CCV 480-584988/37			09:14						+									
CCB 480-584988/38			09:15						+									
ZZZZZZ			09:16						1									
ZZZZZZ			09:16															
ZZZZZZ			09:17															
ZZZZZZ			09:18															

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo				Job No.: 480-185822-1							
SDG No	3DG No.:										
Analyst: <u>CLT</u> Batch Start Date: <u>06/11/2021</u>											
Reporting Units: mg/L					Analytical Batch No.: 584988						
Sample Number	QC Туре	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent		
1	CCV	08:43	Ammonia	0.966	1.00	97	90-110		NH3 CCV_01340		
2	CCB	08:44	Ammonia	0.00913				J			
13	CCV	08:53	Ammonia	0.947	1.00	95	90-110		NH3 CCV_01340		
14	CCB	08:54	Ammonia	ND							
25	CCV	09:04	Ammonia	0.979	1.00	98	90-110		NH3 CCV_01340		
26	CCB	09:04	Ammonia	ND							

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo					0	Job No.: 480-185822-1							
SDG No	.:												
Analyst: JPS				Batch Start Date: 06/10/2021									
Reporting Units: mg/L				Analytical Batch No.: 584966									
Sample Number	QC Type	Time	Analyte		Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent			
1	ICV	16:30	Alkalinity,	Total	104.8	100	105	90-110		Alk 100 ICV_00100			
50	CCV	22:32	Alkalinity,	Total	101.5	100	102	90-110		WC_ALK_CCV_00063			
51	CCB	22:39	Alkalinity,	Total	0.800				J				
62	CCV	00:08	Alkalinity,	Total	100.5	100	100	90-110		WC_ALK_CCV_00063			
63	CCB	00:14	Alkalinity,	Total	0.960				J				
74	CCV	01:42	Alkalinity,	Total	103.0	100	103	90-110		WC_ALK_CCV_00063			
75	CCB	01:48	Alkalinity,	Total	ND								
83	CCV	02:42	Alkalinity,	Total	103.0	100	103	90-110		WC_ALK_CCV_00063			
84	CCB	02:48	Alkalinity,	Total	ND								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Comments

No additional comments.

Receipt

The samples were received on 6/11/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D LL: The following sample was diluted due to color, appearance, and viscosity: MW-C12 061021 (480-185894-1). Elevated reporting limits (RL) are provided.

Method 8270D LL: The following sample required a dilution due to the nature of the sample matrix: MW-C12 061021 (480-185894-1). 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.

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 sample was diluted to bring the concentration of target analytes within the calibration range: MW-C12 061021 (480-185894-1). 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 sample was diluted to bring the concentration of target analytes within the calibration range: MW-C12 061021 (480-185894-1). 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.

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 sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-C12 061021 (480-185894-1).

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 I GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo	Job No.: 480-185894-1
SDG No.:	
Client Sample ID:	Lab Sample ID: <u>MB 480-585079/1-A</u>
Matrix: Water	Lab File ID: Y02822675.D
Analysis Method: <u>8270D LL</u>	Date Collected:
Extract. Method: 3510C	Date Extracted: 06/11/2021 14:34
Sample wt/vol: 1000(mL)	Date Analyzed: 06/14/2021 15:06
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.: 585216	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	ND		1.0	0.064
85-01-8	Phenanthrene	0.0897	J	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)	70		24-146
321-60-8	2-Fluorobiphenyl	84		37-120
367-12-4	2-Fluorophenol (Surr)	44		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	78		26-120
4165-62-2	Phenol-d5 (Surr)	32		11-120
1718-51-0	p-Terphenyl-d14	100		64-127
3-IN METHOD BLANK GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: <u>480-185894-1</u>

SDG No.:

Method	Lab Sample :	ID Analyte			Result Qu	al Units	RL	Dil
Batch ID:	585653 Da	ate: 06/16/2021	22:28					
300.0	MB 480-5856	53/28 Sulfate			ND	mg/L	2.0	1
Batch ID:	585286 Da	ate: 06/14/2021	13:23					
350.1	MB 480-58528	86/3 Ammonia			0.0130 J	mg/L	0.020	1
Batch ID:	585341 Da	ate: 06/14/2021	16:44	Prep Batch:	585275	Date: 06/14/202	1 12:26	
9012B	MB 480-5852	75/1-A Cyanide	, Total		ND	mg/L	0.010	1
Batch ID:	585189 Da	ate: 06/11/2021	15:27					
SM 2320B	MB 480-58518	89/28 Alkalin	ity, Total		ND	mg/L	5.0	1
Batch ID:	585189 Da	ate: 06/11/2021	18:23					
SM 2320B	MB 480-58518	89/52 Alkalin	ity, Total		ND	mg/L	5.0	1
Batch ID:	585104 Da	ate: 06/11/2021	16:10					
SM 3500 FE D	MB 480-5851	04/27 Ferrous	Iron		ND	mg/L	0.10	1

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Na	me: Eu:	rofins	TestAmerica, Buffalo		Job No	o.: <u>480-</u>	185894-1		
SDG No	.:								
Analys	t: <u>CLT</u>				Batch	Start Da	ate: 06/2	14/20	21
Report	ing Un:	its: m	g/L		Analy [.]	tical Ba [.]	tch No.:	5852	86
Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:22	Ammonia	1.03	1.00	103	90-110		NH3 CCV_01341
2	ССВ	13:23	Ammonia	0.0127				J	
13	CCV	13:32	Ammonia	1.02	1.00	102	90-110		NH3 CCV_01341
14	CCB	13:33	Ammonia	0.0122				J	
21	CCV	13:39	Ammonia	1.00	1.00	100	90-110		NH3 CCV_01341
22	CCB	13:40	Ammonia	0.0112				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Nar	me: Eu	rofins	TestAmeri	ca, Buffalo		Job N	o.: <u>480-</u>	185894-1		
SDG No	.:									
Analys	t: JPS					Batch	Start D	ate: 06/3	11/20	21
Report	ing Un	its: m	g/L			Analy	tical Ba	tch No.:	5851	89
Sample Number	QC Туре	Time	Analyte		Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	12:13	Alkalinity,	Total	105.6	100	106	90-110		Alk 100 ICV_00100
26	CCV	15:16	Alkalinity,	Total	99.52	100	100	90-110		WC_ALK_CCV_00063
27	CCB	15:21	Alkalinity,	Total	ND					
38	CCV	16:41	Alkalinity,	Total	100.5	100	100	90-110		WC_ALK_CCV_00063
39	CCB	16:47	Alkalinity,	Total	ND					
50	CCV	18:10	Alkalinity,	Total	103.4	100	103	90-110		WC_ALK_CCV_00063
51	CCB	18:17	Alkalinity,	Total	1.12				J	
62	CCV	19:41	Alkalinity,	Total	99.60	100	100	90-110		WC_ALK_CCV_00063
63	CCB	19:47	Alkalinity,	Total	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN MATRIX SPIKE SAMPLE RECOVERY GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185894-1

SDG No.:

Matrix: Water

Method Lab Sample ID Analyte	Result (C Unit	Spike Amount	Pct. Rec.	Limits	RPD RPD Limit	Q
Batch ID: 585189 Date: 06/11/2021 16:04							
SM 480-185894-1 Alkalinity, Total	502	mg/L					
SM 480-185894-1 Alkalinity, Total 2320B MS	551.5	mg/L	100	49	60-140		4
Batch ID: 585104 Date: 06/11/2021 16:10							
SM 3500 480-185894-1 Ferrous Iron FE D	ND	mg/L					HF
SM 3500 480-185894-1 Ferrous Iron FE D MS	1.08	mg/L	1.00	108	70-130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Amherst, NY 14228-2298	Phone (716) 691-2600 Phone (716) 691-7991
	Amherst, NY 14228-2298

Chain of Custody Record

Syracuse & eurofins Environment Testing

Luque (1 10) 091-2000 Luque (1 10) 091-1991	Canadian	1.00		NUCC
Client Information		Schove, John R		480-157433-34652.4
Client Contact Mr. John Russantini	Phone CO CO CO	E-Mait John Schove@Eurofinset.com	State of Origin	Page A of 5 1 A A
Company	OISMd)	12.	Job #
New York State Electric & Gas		Analysis	Requested	
Address 18 Link Drive	Due Date Requested:			Preservation Codes:
City: Binghamton SHORT	TAT Requested (days): STANOADO	AT		R - RUL M - HEXANE B - NaOH N - None C - Zn Acetate 0 - AsNaO2
State. Zp. NY, 13902 HOLD	Compliance Project: A Yes A No			D - Nitric Acid P - Na204S E - NaHSO4 Q - Na2SO3 E Mooli P Ni2S203
Phone	PO# 4505431222	co contraction con		G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email: ijiruspantini@nyseg.com	WO# 60615225	emivo (tes		1 - Ice U - Acetone J - Di Water V ∞ MCAA
Project Name NYSEG - Former MGP Site - Ithaca, NY	Project # 48022675	(ISNA N (ISNA N 2 HAq	sno.	K - EDTA W - PH 4-5 L - EDA Z - other (specify)
Sile NYSEG -ITHACA	SSOW#	Samp v Level rate rate	- Jron Iitrate Itrate Itrate	
	Time Sample (C=comp.	Manager II - Nitrogen HILS - 0.280 - 5.01 HILS - 0.280 - 5.01 HILS - 0.02 HILS	00 - Metals - W_175 - Meth rate_Calc - N 00 - FE_D - Iro 00 - BTEX	
Sample Identification	Sample Bete Time G=grab)	BT-TIsue, A-Air) Ele P.e. 8.27 3.50 tion Code: X N A N 3.50	В 390 В 300 В 300 В 30 В 300 В В 30 В В В В В В В В В В В В В В В	
MW-465 MOB21	0850 pulata C	Water NNXXXXXX	X X X X X X X	
MW- 332 UU USZI	0355 1 1	Water 11 X X X X X X X	XXXXXXXX	
MW-455 OLOB21	lois	water WXXXXXXXXX	$[\times \times \times \times \times \times \times]$	
MW - 225 060821	1030	water VXXXXXX	XXXXXXXX	*MS/MSD hove
MW-40 060821	OHII	water NXXXXX	XXXXXXX	ADIZ 82702/SucuPAH
MW-485 060821	1210	water XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	$X \times X \times X \times X$	
MW - 315 0100821	13 30	Water XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	
MW 475 U60821	1335 1	Water XXXXX	XXXXXXX	B
22	1	Water X X X	~	2
Trip Blank	1	Water	×	(i)
CISMISM	1050 6/8/21 1	water VXXXXX		11 (19)
Possible Hazard Identification	Poison B Duknown Radiological	Sample Disposal (A fee may	be assessed if samples are retai	ned longer than 1 month) thive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	attand R	Special Instructions/QC Require	ements:	
Empty Kit Relinquished by:	Date:	Time	Method of Shipment:	DURIER BY LAB
Relinquished br Outworeda AU	Date/Time 21 / 1545	Company Received by Received by Company	- Blight	71 1745 COMMANY
Relinquished by: Relinquished by:	Date Time 6-18.21, 1900	Compary Received by	Date/Time (C-Q-A (SOO CHILD
Relinquished by:	Date/Time:	Company / Received by.	Date/Time:	Company
Custody Seals Intact: Custody Seal No.: A Yes A No		Cooler Temperature(s) °C and Oth	S. S. T. T. C.	
				Ver: 01/16/2019

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06/18/2021

a, Buffalo		
TestAmeric	d Drive	Y 14228-2298
Eurofins	10 Hazelwoo	Amherst, N

Chain of Custody Record



Urotins Environment Testing America

Phone: 716-691-2600 Fax: 716-691-7991										
Client Information (Sub Contract Lab)	Sampler:			Scho Scho	M: ive, John	~	Сап	ier Tracking No(s):	COC No: 480-64367.1	
Client Contact: Shipping/Receiving	Phone:			E-Ma Johr	Schove@)Eurofinset.cor	n Nev	e of Origin: v York	Page: Page 1 of 2	
Company: TestAmerica Laboratories, Inc.					Accreditatio NELAP -	ns Required (See New York	note):		Job #: 480-185758-1	
Address: 777 New Durham Road.	Due Date Requeste 6/22/2021	:pa					nalvsis Reque	sted	Preservation Co	odes:
City: Edison	TAT Requested (da	łys):							A - HCL B - NaOH	M - Hexane N - None
State, Zip: NJ, 08817	T								C - ZII Accelate D - Nitric Acid E - NaHSO4	0 - ASNAUZ P - Na204S Q - Na2SO3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO#:				sətvisr ((F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecabudrate
Email:	:#OM				or No io) iA Miz				J - DI Water	U - Acetone V - MCAA
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675				SVOC es or M e (Yes				Kainer K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site:	SSOW#:				C FAI SD (A				of con	
			Sample	Matrix (www.ater.	SIM/SETO MS/Mi MS/Mi				nmber (
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab)	S=solid, O=waste/oll, BT=Tissue, A=Air)	Perforn Perforn 8270E 3				Total N Special	Instructions/Note:
	X	X	Preserva	tion Code:	X					
MW-46s 060821 (480-185758-1)	6/8/21	08:50 Eastern		Water	×				-	
MW-33s 060821 (480-185758-2)	6/8/21	08:55 Eastern		Water	×				1	
MW-45s 060821 (480-185758-3)	6/8/21	10:15 Eastern		Water	×				-	
MW-22s 060821 (480-185758-4)	6/8/21	10:30 Eastern	-	Water	×				1	
MW-22s 060821 (480-185758-4MS)	6/8/21	10:30 Eastern	WS	Water	×				1	
MW-22s 060821 (480-185758-4MSD)	6/8/21	10:30 Eastern	MSD	Water	×				1	
MW-40 060821 (480-185758-5)	6/8/21	11:40 Eastern		Water	×				+	
MW-48s 060821 (480-185758-6)	6/8/21	12:10 Eastern		Water	×				1	
MW-31s 060821 (480-185758-7)	6/8/21	13:30 Eastern		Water	×				1	
Note: Since laboratory accreditations are subject to change. Eurofins TestArr maintain accreditation in the State of Origin listed above for analysis/tests/me TestArmerica attention immediately. If all requested accreditations are currer	erica places the ownershi trix being analyzed, the sa t to date, return the signec	p of method, an amples must be t Chain of Custo	alyte & accrec shipped back ody attesting to	ditation complia to the Eurofins o said complica	restAmerica	subcontract labor: I laboratory or othe Is TestAmerica.	stories. This sample shi r instructions will be pro	pment is forwarded unde wided. Any changes to a	er chain-of-custody. If the lab	pratory does not currently brought to Eurofins
Possible Hazard Identification					Samp	e Disposal (/	fee may be asse	ssed if samples ar	e retained longer than	1 month)
Unconfirmed	: ((Return To Clie	nt Dispo	isal By Lab	Archive For	Months
Deliverable Requested: 1, 11, 11, 1V, Other (specify)	Primary Delivera	able Rank: 2			Specia	I Instructions/C	2C Requirements:			
Empty Kit Relindvished by:		Date:			Time:	1		Method of Shipment:	1 1	
Relinquished by: UMWWW U (NO10)	Date/Time: 91	21 [7	8	Compary of	R R G	eived by:	a tidet		1 19:40	Company
Relinquished by:	Date/Time:			Company	Re	ceived by:		Date/Time:		Company

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06/18/2021

Relinquished by: Relinquished by: Ver: 11/01/2020

Company

Date/Time: Date/Time:

Cooler Temperature(s) °C and Other Remarks:

2.9

2.4.5

-6

4m

5

Custody Seal No.

Custody Seals Intact Δ Yes Δ No

Received by:

Company

Date/Time:

Eurofins TestAmerica, Buffalo									. eurofin	
10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	-	Chain	of Cust	ody R	ecord					Environment Testing America
Client Information (Sub Contract Lab)	Sampler:			Lab Ph Schov	1: /e. John R		Carrier Track	king No(s):	COC No: 480-64367.2	
Client Contact: Shinning/Deceiving	Phone:			E-Mail:	Cobouro@	Turnefinget com	State of Orig	in:	Page:	
Curpping Control of Co					vcreditations	Required (See not	e):		Job #:	
l estAmerica Laboratories, Inc.					NELAP - N	ew York			480-185758-1	
Address: 777 New Durham Road,	Due Date Request 6/22/2021	ted:				An	alysis Requested		Preservation C	odes:
City: Edison	TAT Requested (d	lays):							B - NOL B - NaOH C - Zn Acetate	M - Nevane N - None O - AsNaO2
State. Zip. NJ, 08817									D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	#Od				lalytes (F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Doderahvdrate
Email:	:# OM				of No (oi A Miz				J - DI Water	U - Acetone V - MCAA
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675				2AOC B2 OL J B (162				tainer K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site	:#MOSS								of con	
		Sample	Sample Type (C=comp,	Matrix (w=water, s=solid, 0=waste/oll,					PedmuN Ist	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	Preservatic	-TIssue, A-Air)	85 94				R Special	Instructions/Note:
MW-47s 060821 (480-185758-8)	6/8/21	13:35 Ectore		Water	×				1	-
DUP (480-185758-9)	6/8/21	Eastern		Water	×				1	
									010	
Note: Since laboratory accreditations are subject to change, Eurofins TestA maintain accreditation in the State of Ongin listed above for analysis/lests/rr TestAmerica attention immediately. If all requested accreditations are curre	merica places the ownersh natrix being analyzed, the s int to date, return the signe	iip of method, a samples must b id Chain of Cusi	nalyte & accredit: e shipped back to tody attesting to s	ation complian the Eurofins 1 aid complicant	ce upon out s estAmerica la ce to Eurofins	ubcontract laborato aboratory or other ir TestAmerica.	ries. This sample shipment is astructions will be provided.	s forwarded under cha Any changes to accrec	in-of-custody. If the lab ditation status should be	oratory does not currently brought to Eurofins
Possible Hazard Identification					Sample	Disposal (A f	ee may be assessed i	f samples are ret	ained longer than	1 month)
Unconfirmed						eturn To Client	Disposal By	Lab La	Archive For	Months
Deliverable Requested: I, II, II, IV, Other (specify)	Primary Deliver	able Rank: ;	2		Special	Instructions/QC	: Requirements:			
Empty Kit Relinquished by:		Date:			Time:		Method	d of Shipment:	1	
Relinquished by:	Date/Time:		ŏ	ompany	Rece	ived by: Ui	a tader		14:50/h	Coppend
Relinquished by:	Date/Time:		ŏ	ompany	Rece	wed by:		Date/Time:		Cómpany
Relinquished by:	Date/Time:		ŭ	ompany	Rece	ived by:		Date/Time:		Company
Custody Seals Intact: Custody Seal No.: 15/3, 4 Yes A No	137	T	-64	17:6	2.9 Cool	ər Temperature(s) °ı	C and Other Remarks:			
					~					Ver: 11/01/2020

Login Number: 185758 List Number: 1 Creator: Yeager, Brian A

Job Number: 480-185758-1

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	AEIOM
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 Number: 185758 List Number: 2 Creator: Armbruster, Chris

Job Number: 480-185758-1

List Source: Eurofins TestAmerica, Edison List Creation: 06/11/21 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	1513137
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	2.9°C IR9
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	

Eurotins TestAmerica, Buffalo															
10 Hazelwood Drive	U	Shain (of Cus	tody R		-								😴 eurofins	Favironment Testing
Amnerst, NY 14228-2298 Phone (716) 691-2600 Phone (716) 691-7991	•		5			5			ú	C S	ē	C			America
Client Information	Sampler: Rh	ich Mil	tur	Lab P Scho	M: Moliopho				5		CAING TAIO		Γ	COC No:	
Client Contact Mr. John Ruspantini	Phone: 518	-929	- 7166	E-Mai	Schove	PE trofin	et com		01					480-15/433-346 Page:	52.4
Company: New York State Electric & Gas			PWSID:				An	alvieie						Job #:	65
Address: 18 Link Drive	Due Date Requeste	:pa			in the second	F					E			Preservation Cod	es:
City Binghamton SHORT	TAT Requested (da	iys): Shaw	dad.		-									A - HCL B - NaOH C - 70 Acatate	M - Hexane N - None
NY, 13902 HOLD	Compliance Projec	t: Δ Yes	A No							_				D - Nitric Acid E - NaHSO4	0 - AsnaO2 P - Na204S Q - Na2SO3
Phone:	PO#: 4505431222				(0		Salija							F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
Email: Jjruspantini@nyseg.com	WO#: 60615225				or No								\$	H - Ascorbic Acid - Ice J - DI Water	T - TSP Dodecahydrate U - Acetone V - MCAA
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675				eeY) e		es HA4	sine			511		nənisi	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site	SSOW#:					sMHT	Level I , Total	ete ommA	lron	ane trate	A Letter		troo to	Other:	
			Sample Type	Matrix (w≖water,	s benetili (1/200)	BTEX +	woj - Ju	SD - Sulf.	- elsteM	5 - Metha	Alkalinit	ХЭТӨ	umber o		
Sample Identification	Sample Date	Sample Time	(C=comp, G=grab)	S=solid, O=waste/oil, BT=Tissue, A=Air)		- 209Z	- 82100	2_0.008	- 2010	VL_N2S	3208 -	- 2092 -	0191 N	- I local	
	X	X	Preserva	tion Code:	N	A A	6 <u>co</u>	N 3	9 0	Z	^ε Ζ Ζ Ζ	8 4		special in	structions/Note:
MW-235 060921	6/9/21	0840	0	Water	NN	m	21			-	-		E I		
MU- CIG 060921		0530	1	Water		-		-	-	-	-		-		
MW-CII 066921		040)	_	Water											
MW - 255 060921		1005		Water					E						
MW - 285 660921		1215		Water						-					
MW - 245 660421	>	1235	Ł	Water	>	2	-2	2	7	2	7		+		
Trip Blank OI	6/09/21	00:00	1	Water	NN					-		a	5		
				Water								-			
(IN)	V			Water						-		-			
				Water				-							
				Water									480-	-185822 Chain o	f Custody
Possible Hazard Identification	on B		Radiological		Samp	le Dispo	sal (A 1	ee may	be as:	sessed	if samp			L	
Deliverable Requested: I, II, III, IV, Other (specify)	ß.		2		Speci	al Instruc	tions/QC	Requir	ements	noai -	y Lau		Arch	Ve For	Months
Empty Kit Relinquished by:		Date:			Time;					Meth	od of Shi	oment:			
remindusing of Rofer and	Date/Time: 6/9,	121	HIO.	Company	Re	ceived by.	A	2			Da	terTime:	2/2	0/11/1	Company
Reinquisined by	Date/Time:	4 12	00	Company	ž	sceived by:	5					te/Time:	je.	£00	Company
Custodu Gaala Intrade - Custodu Saal Ma -	Uate/ I Ime.			Company	<u>×</u>	cceived by					Da	te/Time:			Company
A Yes A No					<u>ö</u>	oler Temp	erature(s)		ther Rem	sz,	U F				
															Ver: 01/16/2019

Page 1930 of 1933

06/18/2021

Buffalo	
TestAmerica,	I Drive
Eurofins	10 Hazelwooc

Chain of Custody Record



Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	•			6001	5					America
Client Information (Sub Contract Lab)	Sampler:			Lab F Scho	M: ove, John R		Carrier Trach	ing No(s):	COC No: 480-64405.1	
Client Contact Shipping/Receiving	Phone:			E-Mai Johr	l. Schove@I	Eurofinset.com	State of Orig New York	in:	Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.					Accreditation	s Required (See note lew York			Job #: 480-185822-1	
Address: 777 New Durham Road,	Due Date Requeste 6/23/2021	÷				Ana	vsis Requested		Preservation C	odes:
City. Edison	TAT Requested (da	/s):							A - HCL B - NaOH C - 7n Acetate	M - Hexane N - None O - AsNaO2
State, Zip. NJ, 08817	1								D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2S03
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	#O4				sətylsr ((F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecabrotrate
Email:	.# OM				01 No (0) 1A MI2				J - DI Water	U - Acetone V - MCAA
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675				SVOC es or l e (Xes				tainer K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site	SSOW#:				C_LVI SD (Ye sample				other:	
		Samula	Sample Type	Matrix (w=water, s=solid,	d Filtered S form MS/M: form MS/M:) Pedmul It	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	0=waste/oll, 3T=Tissue, A=Air)	8530 664				Special	instructions/Note:
	X	X	Preservat	ion Code:	X					
MW-23S 060921 (480-185822-1)	6/9/21	08:40 Fastern		Water	×				2	
MW-C16 060921 (480-185822-2)	6/9/21	09:30 Eastern		Water	×				2	
MW-C11 060921 (480-185822-3)	6/9/21	10:40 Eastern		Water	×				2	
MW-25S 060921 (480-185822-4)	6/9/21	10:05 Eastern		Water	×				2	
MW-28S 060921 (480-185822-5)	6/9/21	12:15 Fastern		Water	×				2	
MW-24S 060921 (480-185822-6)	6/9/21	12:35 Fastern		Water	×				2	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmeric maintain accreditation in the State of Ongin listed above for analysis/tests/matrix TestAmerica attention immediately. If all requested accreditations are current to	ca places the ownership theing analyzed, the said date, return the signed	of method, an mples must be Chain of Cust	alyte & accred shipped back bdy attesting to	itation complia to the Eurofins said complica	TestAmerica I TestAmerica I Tee to Eurofins	ubcontract laboratori aboratory or other ins s TestAmerica.	s. This sample shipment is ructions will be provided. <i>A</i>	forwarded under chai vny changes to accred	in-of-custody. If the lab	oratory does not currently brought to Eurofins
Possible Hazard Identification					Sample	Disposal (A fe	e may be assessed it	samples are ret	ained longer than	1 month)
Unconfirmed						eturn To Client	Disposal By	Lab	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	ble Rank: 2			Special	Instructions/QC	Requirements:			
Empty Kit Relinquished by:	•	Date:			Time:		Method	t of Shipment:	-	
Relinquished by: MMW W W I I K a / b		1219	05t1	A damo	Rece	ived by:	is feder	Date/fime/2/	SHibQ/	company
Relinquished by:	Date/Time:		•	Company	<i>a</i>	wed by:		Date/Tithe: /		Company

Relinquished by: elinquished by: Ver: 11/01/2020

Company

Date/Time: Date/Tirhe

Cooler Temperature(s) °C and Other Remarks:

Received by: celved by:

Company

Date/Time:

1.5

1-0-2-0-1

A

Custody Seal No.: 15/3/47

Custody Seals Intact:

Login Number: 185822 List Number: 1 Creator: Yeager, Brian A

Job Number: 480-185822-1

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 Number: 185822 List Number: 2 Creator: Armbruster, Chris

Job Number: 480-185822-1

List Source: Eurofins TestAmerica, Edison
List Creation: 06/11/21 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	1513147
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	1.5°C IR9
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	

Eurofins TestAmerica, Buffal Alba	INY Chain of Custo	dy Record		Curofins Environment Testing
hone: 716-691-2600 Fax: 716-691-7991			A = 10,000	
Client Information	CALPX CND TOL HOLDEN	Lab PM Schove, John R	Carrier Iracking No(s).	480-161696-34652.1
Zient Contact Mr. John Ruspantini	Phone RB 925 HGS	E-Mail: John.Schove@Eurofinset.com	State of Origin	Page Page 1 of 5
ompany Verk State Electric & Gas	Disma	Analysis Re	equested	# qor.
kidress: 18 Link Drive	Due Date Requested:			Preservation Codes:
äry Binghamton	TAT Requested (days): CHEINANIA TAT			B NAOH N None C Zn Acetate O AsNaO2
itate. Zip VY, 13902	Compliance Project: A Yes A No			D - Nitric Acid P - Na204S E - NaHSO4 Q - Na2SO3
thone	PO# 4505431222	(< e9iife		F - WEUH K - Na25203 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahvdrate
mait jruspantini@nyseg.com	wo# 60615225	s or No No) Pres emivol		I - Ice U - Acetone J - DI Water V - MCAA
Project Name VYSEG - Former MGP Site - Ithaca, NY	Project # 48022675	29Y) 9 170 29 (IsnA M 2 HAq 2 HAq	suo.	K - EUIA W - PH 4-5 L - EDA Z - other (specify)
bite	SSOW#	Sp (Y) (100 Sp (Y) 100 100 100 100 100 100 100 10	ane litrate iy n, Ferr	Other:
	Sample C=comp, •	100 - Медаls	K_175 - Meth rate_Catc - NI 00_FE_D - Iro 00_FE_D - Iro 00_FE_D - Iro 100 - THM 100 - THM	
Sample Identification	Sample Date Time G=grab) BT-1 Preservation	Code: X N A N B 300 Code: X N A N B 821 Code: X N A N B 821	A 826 A 826 A 826 S 320 S 320 A 44 K 826 A 44 K 826 A 44 K 826 A 45 K 826 K 826 K 826 K 826 K 826 K 826 K 826 K 826 K 826 K 826 K 826 K 826 K 826 K	Special Instructions/Note:
I CULO U CULO I TAN	C) 000 1 clail al	Vater W N V X K K K K K K K		
P. RANN		Nater III X W X	X	
Trin Rition	00.00100	Mater UV (RG)	X	
		Water		
		Nater		
8		Water		
a k		Water		
		water		
		Mater		
		Water		
		Water	480-1858	94 Chain of Custody
Possible Hazard Identification	Doince Dedication	Sample Disposal (A fee may be	assessed if sa.	hiio Eor Monthe
Deliverable Requested: I, III, IV, Other (specify)	L'ALES UNIVERSITY RAUDURE	Special Instructions/QC Requireme	ents:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment	
Relinquished by (parties - 1)	Date/Time 6/16/21,1400 Com	FSION RECEIVED DY Laden	Date/Time 21	1400 Company
Reinquished by Rail Leal	Date/Time Com 2, 110/2/ 1700 Com	pany Received by	Date/Time:	SQ COMPANY
Relinquished by	Date/Time	pany Received by	Date/Time	Company
Custody Seals Intact: Custody Seal No :		Cooler Temperature(s) °C and Other R	Remarks:	
				Ver: 11/01/2020

a, Buffalo		
Eurofins TestAmeric	10 Hazelwood Drive	Amherst, NY 14228-2298

Chain of Custody Record



Phone: 716-691-2600 Fax: 716-691-7991									
Client Information (Sub Contract Lab)	Sampler:		Lab PM Schov	e, John R		Carrier Tracking	No(s):	COC No: 480-64468.1	
Client Contact: Shipping/Receiving	Phone:		E-Mail: John.S	chove@Eurofinset.co	ε	State of Origin: New York		Page: Page 1 of 1	
Company. TestAmerica Laboratories, Inc.			₹2	ccreditations Required (See ELAP - New York	note):			Job #: 480-185894-1	
Address 777 New Durtham Road,	Due Date Requested: 6/24/2021				Analysis Ro	equested		Preservation C	odes:
City. Edison State. Zip:	TAT Requested (days):							A - HCL B - NaOH C - Zn Acetate D - Nitric Acid	M - Hexane N - None O - AsNaO2 P - Na2C04S
NJ, 08817 Phone. 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			səîylısın.				E - Nan 304 F - MeOH G - Amchlor H - Ascorbic Acid	u - NazSO3 R - Na2S203 S - H2SO4 T - TSP Dodecahydrate
Email:	# OM		NIC	(ov A Mis				J - DI Water	U - Acetone V - MCAA
Project Name: NYSEG - Former MGP Site - Ithaca, NY	Project #: 48022675			SVOC				rtainer L - EDA L - EDA	W - pH 4-5 Z - other (specify)
Site:	SSOW#:		Junes					of cor	
Sample Identification - Client ID (Lab ID)	Sample Date Tirr	Sample Type ple (C=comp, e G=grab)	Matrix M=water, S=solid, O=waste/oli, BT=Tissue, A=Ar)	8270E_SIM/2610				Total Number Speci S	Instructions/Note:
			ation Code:	X					
MW-C12 061021 (480-185894-1)	6/10/21 09:0	00 ern	Water	×				2	
EQ BLANK (480-185894-2)	6/10/21 09	10	Water	×				2	
								Net Sal	
Note: Since laboratory accreditations are subject to change, Eurofins TestAm maintain accreditation in the State of Origin listed above for analysis/tests/me TestAmerica attention immediately. If all requested accreditations are curren	erica places the ownership of meth trix being analyzed, the samples n t to date, return the signed Chain c	nod, analyte & accre nust be shipped bac of Custody attesting	editation complianc k to the Eurofins T to said complicanc	s upon out subcontract labo sstAmerica laboratory or oth e to Eurofins TestAmerica.	ratories. This sar ler instructions wi	nple shipment is fo I be provided. Any	warded under cha changes to accree	in-of-custody. If the lat itation status should be	oratory does not currently brought to Eurofins
Possible Hazard Identification				Sample Disposal (A fee may be	assessed if s	amples are ret	ained longer than	1 month)
Unconfirmed Deliverable Decineted: 1.11.111.1V. Other (concists)	Drimon Dolinomha Dr	C : 10		Eacoic Instructions	ent Conirom	Disposal By La	ab []	Archive For	Months
		11. Z							
Empty Kit Relinquished by:	Date:			ime:		Method of	Shipment:		
Relinquished by: MMMUN LIUCIO	Date/Time Date/Time	pg()	Company	Received by: L	A. Vu	Feder	Date/Tine:	24 1600	Company
rounderough. Bolliouishood buu			Company	- Capacitation					Company of
reunquished by:	Date/ Lime:		Company	Keceived by:			Date/ I me:		Company
Custody Seals Intact: Custody Seal No.: △ Yes △ No	3157	161319	2	Cooler Temperature	(s) °C and Other I	Remarks: 5. 6	502 5.	Jec L	7.5.074.00
•							ĥ		Ver: 11/01/2020

Login Number: 185894 List Number: 1 Creator: Yeager, Brian A

Job Number: 480-185894-1

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

Login Number: 185894 List Number: 2 Creator: Armbruster, Chris

Job Number: 480-185894-1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	1513157, 1513154
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	5.0, 4.0°C
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 D - Mann Kendall Analysis

I

Evaluation Date: Facility Name: Conducted By:	June 2021 NYSEG - Itha Pat McHugh	aca Court Stree	et	C	Job ID: Constituent: oncentration Units:	60615225 Acenaphthalene ug/L	•	
Samp	ling Point ID:	MW-C11	MW-C12	MW-C16	MW-22S	MW-23S	MW-46S	MW-48S
Sampling Event	Sampling Date			ACENAPHTHA		RATION (ug/L)		
1	6/7/2016	2.4	56.7	3.2	1.7	68.8	34.9	32.7
2	10/1/2020	3.6	81.0	23.0	2.4	98.0	43.0	41.0
3	3/3/2021	1.3	140.0	15.0	3.2	82.0	89.0	33.0
4	6/9/2021	1.5	92.0	25.0	0.5	58.0	75.0	36.0
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
1/								
18								
19								
20	-f.Vristian	0.40	0.00	0.00	0.50	0.00	0.42	0.44
Coefficient	or variation:	0.48	0.38	0.60	0.59	0.23	0.43	0.11
wann-Kendall	Statistic (S):	-2	4	4	27.5%	-2	4	<u> </u>
Confid	ience Factor:	62.5%	03.3%	03.3%	37.5%	02.5%	03.3%	62.5%
Concent	ration Trend:	Stable	No Trend	No Trend	Stable	Stable	No Trend	No Trend



for Constituent Trend Analysis



Notes:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.

2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing;

≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, M.S. Rifai, C.J. Newell, Aziz, M. Ling, H.S. Rifai, C.J. Newell, Aziz,

Ground Water, 41(3):355-367, 2003.

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			for Con	stituent Tre	end Analysi	S		
Evaluation Date: Facility Name: Conducted By:	June 2021 NYSEG - Ith Pat McHugi	naca Court Stree	t	c	Job ID: Constituent: Concentration Units:	60615225 Benzene ug/L		
Samp	ling Point ID:	MW-C11	MW-C12	MW-C16	MW-22S	MW-23S	MW-46S	MW-48S
Sampling Event	Sampling Date			BENZEN	IE CONCENTRATIC	N (ug/L)		
1	6/7/2016	20.9	61.6	1.0	1.0	5.0	358	174
3	3/3/2021	4.0	9.0 16.0	4.0	1.0	2.0	1200	35.0
4 5	6/9/2021	2.0	11.0	2.0	1.0	1.1	1200	41.0
6								
8								
9								
11								
12								
14 15								
16								
18								
19 20								
Coefficient Mann-Kendal	t of Variation: Statistic (S):	1.34 -2	1.01 -2	0.75 2	1.70 -1	0.74 -4	0.47 5	0.81 -4
Confie Concent	dence Factor: tration Trend:	62.5% No Trend	62.5% No Trend	62.5% No Trend	50.0% No Trend	83.3% Stable	89.6% No Trend	83.3% Stable

GSI MANN-KENDALL TOOLKIT



Notes:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.

2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing;

≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable. 3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales,

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Sampl Sampling Event	ling Point ID:	MW-C11			oncentration Units:	Job ID: 60615225 Constituent: Ethylbenzene Concentration Units: ug/L				
Sampling Event	Sampling		MW-C12	MW-C16	MW-22S	MW-23S	MW-46S	MW-48S		
	Date	ETHYLBENZENE CONCENTRATION (ug/L)								
1	6/7/2016	128	383	1.0	1.0	82.4	428	275		
2	10/1/2020	1.0	1.0	2.0	11.0	65.0	790	26.0		
3	3/3/2021	4.0	31.0	4.0	1.0	26.0	970	39.0		
4	6/9/2021	2.0	10.0	2.0	1.0	27.0	1200	25.0		
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19										
∠∪ Coofficient	of Variation:	1.86	1 74	0.56	1 / 3	0.56	0.38	1 34		
Monn Kondoll Statiation:				3	-1	-4	6			
Confid	ence Factor:	62.5%	62.5%	72.9%	50.0%	83.3%	95.8%	83.3%		
Comdence Factor:		02.3 /0	02.3 /0	12.5/0	30.0 //	05.5 /0		03.3 /0		



for Constituent Trend Analysis



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples*.

2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing;

≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
 3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales,

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valuation Date: Facility Name: Conducted By:	June 2021 NYSEG - Itha Pat McHugh	aca Court Stree	et	Job ID: 60615225 Constituent: Naphthalene Concentration Units: ug/L						
Sampl	Sampling Point ID: MW-C11 MW-C12		MW-C16	MW-22S	MW-23S	MW-46S	MW-48S			
Sampling Event	Sampling Date	NAPHTHALENE CONCENTRATION (ug/L)								
1	6/7/2016	111	180	1.4	1.7	1.4	954.0	16.4		
2	10/1/2020	4.8	0.19	19.0	0.8	340.0	1100	91.0		
3	3/3/2021	20.0	0.35	20.0	1.0	230.0	2500	44.0		
4	6/9/2021	20.0	20.0	20.0	0.068	14.0	2200	49.0		
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∠∪ Coofficient	of Variation:	1 25	1 74	0.61	0.74	1 1 1	0.46	0.61		
Monn Kondoll Statiatic (S):			0	5		0	0.40	2		
Confidence Factor:		50.0%	37.5%	89.6%	83.3%	37.5%	83.3%	62.5 <u>%</u>		
Concentration Trend		No Trend	No Trend	No Trend	Stable	No Trend	No Trend	No Trend		





Notes:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.

2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing;

≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable. 3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales,

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valuation Date: Facility Name: Conducted By:	June 2021 NYSEG - Ith Pat McHugh	aca Court Stree	t] c	Job ID: Constituent: concentration Units:	60615225 Toluene ug/L		
Sampling Point ID: MW-C11 MW-C12			MW-C16	MW-22S	MW-23S	MW-46S	MW-48S	
Sampling Event	Sampling Date			TOLUEN	E CONCENTRATIC	N (ug/L)		
1	6/7/2016	11.1	1.0	1.0	1.0	5.0	29.5	5.0
2	10/1/2020	1.0	1.0	2.0	0.51	2.0	20.0	2.0
3	3/3/2021	4.0	1.0	4.0	1.0	2.0	32.0	2.0
4	6/9/2021	2.0	1.0	2.0	1.0	1.3	65.0	1.0
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Coefficient of Variation: Mann-Kendall Statistic (S):		1.01	0.00	0.56	0.28	0.64	0.54	0.69
		stic (S): -2	0	3	1	-5	4	-5
Confidence Factor:		62.5%	37.5%	72.9%	50.0%	89.6%	83.3%	89.6 <u>%</u>
Concentration Trends		No Trend	Stable	No Trend	No Trend	Stable	No Trend	Stable





Notes:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.

2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing;

≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable. 3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales,

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Evaluation Date: Facility Name:	June 2021 NYSEG - Ith	aca Court Stree	ət	}	Job ID: Constituent:	60615225 Xylenes, Total			
Conducted By:	Pat McHugh	ı		Concentration Units: ug/L					
Sampling Point ID:		MW-C11	MW-C12	MW-C16	MW-22S	MW-23S	MW-46S	MW-48S	
Sampling Event	Sampling Date	XYLENES, TOTAL CONCENTRATION (ug/L)							
1	6/7/2016	51.0	16.8	3.0	3.0	58.9	307	31.7	
2	10/1/2020	2.0	2.0	4.0	9.2	38.0	210	18.0	
3	3/3/2021	8.0	1.9	8.0	2.0	16.0	440	18.0	
4	6/9/2021	4.0	2.0	4.0	2.0	22.0	580	12.0	
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10									
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19	-								
20	- - f \/	4.40	4.04	0.47	0.00	0.57	0.40	0.40	
Loefficient	t of variation:	1.43	1.31	0.47	0.86	0.57	0.42	0.42	
wann-Kendal	Statistic (S):	-2	-3	3	-3	-4	4	-5	
Confid	sence Factor:	62.5%	12.9%	12.9%	72.9%	83.3%	83.3%	89.6%	
Concentration Trend:		No Trend	No Trend	No Trend	Stable	Stable	No Trend	Stable	



for Constituent Trend Analysis



Notes:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.

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			for Con	stituent ire	end Analysi	S				
Evaluation Date: Facility Name: Conducted By:	June 2021 NYSEG - Ith Pat McHugh	aca Court Stree	ət	Job ID: 60615225 Constituent: Total Cyanide Concentration Units: mg/L						
Sam	Sampling Point ID: MW-C11 MW-C12			MW-C16	MW-22S	MW-23S	MW-46S	MW-48S		
Sampling Event	Sampling Date	TOTAL CYANIDE CONCENTRATION (mg/L)								
1	6/7/2016	0.027	0.016	0.007	0.540	0.005	0.005	0.005		
2	10/1/2020	0.010	0.016	0.009	0.076	0.010	0.010	0.010		
3	3/3/2021	0.040	0.010	0.010	0.092	0.005	0.010	0.010		
4	6/9/2021	0.017	0.017	0.0077	0.060	0.0072	0.012	0.010		
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13										
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19										
20										
Coefficien	Coefficient of Variation: 0.55 0.22		0.22	0.16	1.21	0.33	0.32	0.29		
Mann-Kenda	Il Statistic (S):	0	1	2	-4	2	5	3		
Confi	idence Factor:	37.5%	50.0%	62.5%	83.3%	62.5%	89.6%	72.9%		
Concen	tration Trend:	Stable	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend		

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