August 18, 2023
Project 2202159

VIA EMAIL: lterrell@nyseg.com

Consulting
Engineers and
Scientists

Ms. Levia Terrell
NYSEG
18 Link Drive
Binghamton, NY 13904

Re: Q1 2023 Groundwater Monitoring Report
NYSEG Ithaca – Court Street Former MGP Site, OU2
Ithaca, NY

Dear Ms. Terrell:

This letter presents to you our report on groundwater sampling for the First Quarter of 2023 at Operable Unit 2 (OU2) of the Ithaca – Court Street former manufactured gas plant site (MGP). This report describes the work performed, field observations, analytical results, and a discussion of the findings. This work was performed according to the Interim Site Management Plan (SMP), which was issued to the NYSDEC in May 2023.

Work Performed

Sampling was performed on March 22 to 23, 2023.

The following 8 wells were sampled:

- MW-C11
- MW-C12
- MW-C16
- MW-22S
- MW-23S
- MW-13S
- MW-46S
- MW-48S

Note that well MW-13S was substituted for background well MW-28S, which was abandoned in December 2022 to make way for construction at the city-owned parcel on which it was situated. The locations of these wells on the site are provided on Figure 2.

Groundwater Sampling.

Groundwater sampling was performed on March 22 to 23 by Breanna Pabst and Jordan DesRosiers from GEI's Ithaca, NY office. Depth-to-water measurements to the nearest 0.01-foot from the top of the well casings were made on all the wells to be sampled on the morning of March 22, prior to the start of sampling. The results of the groundwater gauging and well condition observations are presented in Table 1. Using this information and the reference elevations for the wells, the water table elevations were calculated and plotted on Figure 1. Based

GEI Consultants, Inc., P.C.
1301 Trumansburg Road, Suite N, Ithaca, NY 14850
607.216.8955

on these elevations the surface of the water table was contoured, and the direction of inferred groundwater flow shown.

Groundwater sampling began immediately after the first well was gauged. Purging and sampling of each well was performed by low-flow sampling techniques. Dedicated tubing in each well connected to a peristaltic pump, and the water discharged through a flow-through cell equipped with a Horiba Multiparameter meter. The following field parameters were measured during purging and sampling:

- Temperature
- pH
- Dissolved Oxygen (DO)
- Specific Conductance
- Oxidation-Reduction Potential (ORP)
- Turbidity

The field measurements are presented in well purging and sampling records, provided as Attachment 1. Purging was performed until the field parameters varied 10% or less between successive measurements. The flow-through cell was then disconnected from the outlet to the pump and the laboratory-supplied sampling bottle were filled directly from the out tubing. None of the wells went dry during purging and sampling during this sampling event. Purge water at each well location was collected in 5-gallon buckets, covered, and transferred to 55-gallon drums staged within a secure fenced area on the NYSEG-owned property at 420 North Plain Street, Ithaca, NY.

Samples were placed in coolers on-ice and picked-up from the site by a laboratory courier under chain-of-custody procedures. The samples were delivered to Alpha Analytical of Westborough, Massachusetts.

Laboratory Analysis and Data Validation

The groundwater samples were analyzed for the following:

BTEX	USEPA SW 846 Method 8260
PAHs	USEPA SW 846 Method 8270 SIM
Total Cyanide	USEPA SW 846 Method 9012

Note that per the Interim SMP, for long-term groundwater monitoring the MNA laboratory parameters have been removed from the analytical program, as a sufficient basis of information has been obtained to indicate that intrinsic biodegradation of site contaminants is occurring. Field measurements of dissolved oxygen will provide sufficient information to indicate that whether anaerobic conditions are being sustained that support a native anaerobic bacterial population capable of degrading the organic site contaminants.

Despite using SIM analysis, the laboratory was not able to achieve the detection limits for several of the PAHs, including Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, and Indeno(1,2,3-cd)pyrene. The reasons for the elevated detection limits are likely to be due to matrix interference in the groundwater samples, and dilutions needed for impacted samples. Generally, the detection limits for these compounds were one order of magnitude above the NYSDEC groundwater standards.

Both a standard laboratory report and a NYS ASP Level IV data package was prepared for the sample delivery groups. These reports are provided as Attachment 3. The laboratory data package was reviewed by a GEI chemist and a Data Usability Summary Report (DUSR) was prepared according to NYSDEC's DER-10 requirements (Attachment 2). Additional data qualifiers were added to the Data Summary Table (Table 2) as necessary. All data were found to be usable, with only minor qualifications added during the validation process.

The laboratory provided an electronic data delivery (EDD) to GEI using an EQuIS format. The EDD has been modified to meet NYSDEC's requirements for submittal to the NYSDEC data portal. The data will be uploaded to the portal upon NYSDEC review and approval of the data provided in this report.

Monitoring Results

The following observations are apparent for the Q1 2023 quarterly groundwater monitoring event:

- No significant changes were observed in the results of the Q1 2023 sampling over previous results.
- A potentiometric surface map of groundwater elevations for the site is provided on Figure 2. Groundwater generally flows west toward Washington Street and the site has a low hydraulic gradient of around .0006, meaning the water table is relatively flat.
- A summary of groundwater analytical data for the Quarterly Sampling event is available in Table 2. The compounds that were measured in exceedance of New York groundwater standard or guidance values are shown on Figure 3.
- BTEX compounds were in exceedance in 4 of the 8 wells: MW-23S, MW-46S, MW-48S, and MW-C12
- PAH compounds exceeding groundwater standard or guidance values were detected in 5 of the 8 wells samples: MW-23S, MW-46S, MW-48S, MW-C12, and MW-C16.
- One sample, MW-22S, showed a slight exceedance of the Total Cyanide standard.
- The distribution of dissolved oxygen indicates that wells showing BTEX and/or PAH impacts have depleted concentrations. This is consistent with the previous observations that intrinsic bioremediation is occurring within the impacted area.

The next quarterly groundwater sampling event is to be performed in June 2023.

If you have any questions, please feel free to contact Bruce Coulombe at 607-216-8959.

Sincerely,

GEI CONSULTANTS, INC., P.C.

Josh Prygon
Environmental Engineer

Bruce Coulombe
Project Manager

JP/BC:tc
Enclosures Table 1. Q1 2023 Water Level Measurements and Well Condition Summary
Table 2. Q1 2023 Groundwater Analytical Results
Figure 1. Sampling Locations
Figure 2. Water Table Map
Figure 3. Exceedances of Groundwater Standards
Attachment 1 – Field Sampling Records
Attachment 2 – Data Usability Summary Report
Attachment 3 – Laboratory Report

c:

Tables

Table 1. Q1 2023 Water Level Measurements and Well Condition Summary
NYSEG - Ithaca Court Street MGP
Ithaca, NY

Well ID	Date Gauged	Total Depth[1] (ft bTOC)	Sump Interval (ft bTOC)	Screen Interval (ft bTOC)	Difference between bTOC & bgs (ft)	Elevation of TOC (ft)	Depth to Water (ft bTOC)	Depth to Water (ft bgs)	Water Elevation	NAPL Observed (Y/N)	NAPL Thickness (ft)	Well Condition and Sampling Notes
MW - C11	9/28/2020	17.30	17 - 15	15 - 10	0.52	391.14	5.01	5.53	NA	N	NA	Full of water, cracked road box; Gray cloudy water initially noted during purging.
	3/2/2021	17.23	17 - 15	15 - 10	0.52	391.14	5.14	5.66	386.00	N	NA	Well in good condition. Water observed to be tinted and a gasoline (petroleum-like) odor was noted during purging. No sheen was observed. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry
	6/7/2021	17.21	17 - 15	15 - 10	0.52	391.14	5.39	5.66	385.75	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	9/7/2021	17.28	17 - 15	15 - 10	0.52	391.14	5.35	5.87	385.79	N	NA	Well in good condition. Lots of mud underneath the well cap. Purge water clear, and no odor or sheen noted.
	12/6/2021	15.38	17 - 15	15 - 10	0.52	391.14	4.96	5.48	386.18	N	NA	Fine condition, no odor or sheen observed. Was scheduled to be redeveloped at the end of the GME, but a vehicle was parked over it and access was restricted.
	6/28/2022	12.41	17 - 15	15 - 10	0.52	391.14	5.42	5.94	385.72	N	NA	Roadbox flooded; sludge surrounding inner casing.
	9/19/2022	16.95	17 - 15	15 - 10	0.52	391.14	5.39	5.91	385.75	N	NA	Roadbox flooded; missing one bolt and threads in collar; dark black sediment on bottom; slight sulphur-like odor.
	12/19/2022	17.00	17 - 15	15 - 10	0.52	391.14	5.34	5.86	385.80	N	NA	Roadbox flooded; missing one bolt; one inner thread broken; yellow and black sludge in roadbox.
	3/22/2023	17.10	17 - 15	15 - 10	0.52	391.14	5.52	6.04	385.62	N	NA	Roadbox flooded; missing one bolt; hanger broken; black sludge on probe.
MW - C12	9/28/2020	17.21	17 - 15	15 - 10	0.21	392.20	6.64	6.85	385.56	N	NA	Good condition; Water clear during purging.
	3/2/2021	17.62	17 - 15	15 - 10	0.21	392.20	5.65	5.86	386.55	N	NA	Well in good condition. Water observed to be tinted and a gasoline/sweet (petroleum-like) odor noted during purging. No sheen observed.
	6/7/2021	17.22	17 - 15	15 - 10	0.21	392.20	6.09	6.30	386.11	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	9/7/2021	17.22	17 - 15	15 - 10	0.21	392.20	6.14	6.35	386.06	N	NA	Good condition. No sheen observed. Sulfur-like odor was noted during well purging. YSI technical difficulties, so team purged 3 well volumes before sampling MS+MSD collected.
	12/6/2021	17.21	17 - 15	15 - 10	0.21	392.20	5.98	6.19	386.22	N	NA	Fine condition, no odor or sheen observed.
	6/28/2022	17.21	17-15	15 - 10	0.21	392.20	6.25	6.46	385.95	N	NA	Sulphur-like odor during sampling.
	9/20/2022	17.30	17-15	15 - 10	0.21	392.20	6.23	6.44	385.97	N	NA	Good condition; chemical-like odor during sampling.
	12/19/2022	17.16	17-15	15 - 10	0.21	392.20	5.93	6.14	386.27	N	NA	Good condition; faint NAPL-like odor.
	3/22/2023	17.19	17-15	15 - 10	0.21	392.20	5.81	6.02	386.39	N	NA	Good condition.
MW - 13S	6/28/2022	14.40	--	15 - 5	NM	NM	6.97	NC	NC	N	NA	Top is at an angle and cap doesn't fit with lid.
	9/19/2022	14.43	--	15 - 5	NM	NM	7.01	NC	NC	N	NA	Cover is at an angle and the cap doesn't fit with the cover on; missing one bolt.
	12/19/2022	14.42	--	15 - 5	NM	NM	7.79	NC	NC	N	NA	Cover is at an angle and the cap doesn't fit with the cover on; missing one bolt; not sampled during this event.
	3/22/2023	14.39	--	15 - 5	NM	NM	6.72	NC	NC	N	NA	Cover is at an angle and the cap doesn't fit with the cover on; missing one bolt.
MW - C16	9/28/2020	15.98	16 - 14	14 - 9	0.22	391.31	6.65	6.87	384.66	N	NA	Well surface seal cracked, very hard to open, rusted bolts; Slight MGP odor noted during sampling, black sludge in bottom of well at commencement of purging and became clear, slight sheen observed on purge water.
	3/2/2021	15.95	16 - 14	14 - 9	0.22	391.31	3.54	3.76	387.77	N	NA	Dedicated tubing was rusty (likely iron accumulation). Purged water was tinted yellow/brown. No odor or sheen noted. Dedicated tubing to be replaced.
	6/7/2021	15.94	16 - 14	14 - 9	0.22	391.31	4.62	4.84	386.69	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	9/7/2021	15.87	16 - 14	14 - 9	0.22	391.31	5.16	5.38	386.15	N	NA	Good condition. Faint MGP-like odor noted during gauging and purging. Black specs seen in purge water. No sheen observed.
	12/6/2021	16.07	16 - 14	14 - 9	0.22	391.31	4.64	4.86	386.67	N	NA	Fine condition, no odor or sheen observed.
	6/28/2022	16.13	16 - 14	14 - 9	0.22	391.31	4.35	4.57	386.96	N	NA	Well box flooded, plug not fully sealed, sludge surrounding inner casing, and missing one bolt. Dark sediment observed at tip of probe and initially mistaken for NAPL.
	9/19/2022	16.08	16 - 14	14 - 9	0.22	391.31	5.62	5.84	385.69	N	NA	Missing one bolt; chemical-like odor during sampling; black sludge on bottom.
	12/19/2022	15.95	16 - 14	14 - 9	0.22	391.31	4.73	4.95	386.58	N	NA	Missing one bolt; wing on plug broken.
	3/22/2023	16.03	16 - 14	14 - 9	0.22	391.31	4.11	4.33	387.20	N	NA	Roadbox flooded; Missing one bolt; Black sediment on bottom.
MW - 22S	9/29/2020	13.10	--	14 - 4	0.41	386.74	5.10	5.51	382.05	N	NA	Good condition; Water clear during purging.
	3/2/2021	13.64	--	14 - 4	0.41	386.74	2.84	2.43	383.90	N	NA	Well located in a flower bed and in good condition. Purge water clear, and no odor or sheen noted.
	6/7/2021	13.61	--	14 - 4	0.41	386.74	4.08	4.49	382.66	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.
	9/7/2021	13.68	--	14 - 4	0.41	386.74	4.20	4.61	382.54	N	NA	Good condition. No odor or sheen noted.
	12/6/2021	13.65	--	14 - 4	0.41	386.74	3.73	4.14	383.01	N	NA	Fine condition, no odor or sheen observed.
	6/28/2022	13.60	_	14 - 4	0.41	386.74	4.70	5.11	382.04	N	NA	No bolts on roadbox cover; no odor or sheen observed.
	9/19/2022	13.60	_	14 - 4	0.41	386.74	4.89	5.30	381.85	N	NA	No bolts on roadbox cover.
	12/19/2022	13.58	_	14 - 4	0.41	386.74	3.53	3.94	383.21	N	NA	No bolts on roadbox cover.
	3/22/2023	14.59	_	14 - 4	0.41	386.74	3.35	3.76	383.39	N	NA	No bolts on roadbox cover.
MW - 23S	9/29/2020	13.70	--	14 - 4	0.6	387.02	6.80	7.40	380.22	N	NA	Good condition; Water clear during purging, solvent-like odor noted during sampling.
	3/2/2021	13.69	--	14 - 4	0.6	387.02	6.22	6.82	380.80	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	6/7/2021	13.65	--	14 - 4	0.6	387.02	6.34	6.94	380.68	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted. Well has very good recharge.
	9/7/2021	13.68	--	14 - 4	0.6	387.02	6.41	7.01	380.61	N	NA	Good condition. No odor noted. Small amount of sheen observed on the surface of purge water. YSI technical difficulties, so team purged 3 well volumes before sampling.
	12/6/2021	13.67	--	14 - 4	0.6	387.02	6.32	6.92	380.70	N	NA	Fine condition. White flakes observed in the purged water. Product-like odor observed while purging.
	6/28/2022	13.70	_	14 -4	0.6	387.02	6.56	7.16	380.46	N	NA	Missing two bolts on roadbox cover; no odor or sheen observed.
	9/19/2022	13.64	_	14 -4	0.6	387.02	6.79	7.39	380.23	N	NA	Missing two bolts and threads on collar; NAPL-like odor during sampling.
	12/19/2022	13.66	_	14 -4	0.6	387.02	6.37	6.97	380.65	N	NA	Missing two bolts; missing two threads on collar.
	3/22/2023	14.62	_	14 -4	0.6	387.02	6.23	6.83	380.79	N	NA	Missing two bolts; missing two threads on collar.
MW - 24S	9/28/2020	13.50	--	14 - 4	NM	NM	7.23	NC	NC	N	NA	Top of PVC casing bent/crushed; Water clear during purging.
	3/2/2021	13.71	--	14 - 4	NM	NM	5.54	NC	NC	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	6/7/2021	13.66	--	14 - 4	NM	NM	6.31	NC	NC	N	NA	Well in good condition. Purge water cleared up, faint organic odor detected, no sheen detected.
	9/7/2021	13.45	--	14 - 4	NM	NM	6.77	NC	NC	N	NA	Located in garden in roadside verge, access restricted due to vegetation. Poor condition, missing bolts and PVC bent. Organic-like odor noted during gauging and purging. No sheen observed.
	12/6/2021	13.98	--	14 - 4	NM	NM	6.56	NC	NC	N	NA	Fine Condition. No sheen observed. Odor of decaying material observed while purging.
	6/28/2022	13.49	_	14 - 4	NM	NM	6.85	NC	NC	N	NA	Bulge on side of casing; no bolts present; purged dry on 6/28; methane samples collected on 6/28; remaining samples collected on 6/29.
	9/19/2022	13.50	_	14 - 4	NM	NM	6.81	NC	NC	N	NA	Bulge in PVC casing; missing bolts; plug doesn't fit with cover; purged dry on 9/19 and sampled on 9/20; odor of decaying material.
	12/19/2022	13.45	_	14 - 4	NM	NM	6.11	NC	NC	N	NA	PVC casing indented; no bolts; plug doesn't fit with cover; well went dry during sampling on 12/20; let recharge before collecting remaining samples

Table 1. Q1 2023 Water Level Measurements and Well Condition Summary
NYSEG - Ithaca Court Street MGP
Ithaca, NY

Well ID	Date Gauged	Total Depth[1] (ft bTOC)	Sump Interval (ft bTOC)	Screen Interval (ft bTOC)	Difference between bTOC & bgs (ft)	Elevation of TOC (ft)	Depth to Water (ft bTOC)	Depth to Water (ft bgs)	Water Elevation	NAPL Observed (Y/N)	NAPL Thickness (ft)	Well Condition and Sampling Notes
MW - 25S	9/28/2020	9.40	--	10 - 3	0.22	391.22	7.12	7.34	384.10	N	NA	Partially overgrown with grass, good condition; Water clear during purging.
	3/2/2021	9.72	--	10 - 3	0.22	391.22	5.29	5.51	385.93	N	NA	Purge water initially tinted brown and became clear. No odor or sheen noted. Well ran dry on 3/3/21, allowed to recharge before being sampled 3/4/21.
	6/7/2021	9.71	--	10 - 3	0.22	391.22	6.43	6.65	384.79	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.
	9/7/2021	9.70	--	10 - 3	0.22	391.22	6.53	6.75	384.69	N	NA	Good condition. Only one bolt. No odor or sheen noted. Well ran dry during purging and was allowed to recharge prior to sampling.
	12/6/2021	9.73	--	10 - 3	0.22	391.22	6.19	6.41	385.03	N	NA	Fine condition, no odor or sheen observed. Ran dry and was sampled at a later time.
	6/28/2022	NM	-	10 - 3	0.22	391.22	6.74	6.96	384.48	N	NA	Missing one bolt; plug not on and doesn't fit with lid; removed lock; purged dry on 6/28/22 and sampled on 6/29/22.
	9/19/2022	9.70	-	10 - 3	0.22	391.22	6.67	6.89	384.55	N	NA	Missing one bolts; purged dry on 9/20/22; grab sample collected on 9/21/22
MW - 28S	9/28/2020	19.80	--	20 - 7	0.54	395.17	8.23	8.77	386.94	N	NA	Good condition; Water clear during purging.
	3/2/2021	19.65	--	20 - 7	0.54	395.17	7.65	8.19	387.52	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	6/7/2021	19.50	--	20 - 7	0.54	395.17	7.78	8.32	387.39	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	9/7/2021	19.55	--	20 - 7	0.54	395.17	7.78	8.32	387.39	N	NA	Good condition. Damp (decomposing) odor noted when gauging. No odor or sheen noted during purging.
	12/6/2021	19.54	--	20 - 7	0.54	395.17	7.79	8.33	387.38	N	NA	Fine condition, sulfur-like odor observed while purging. No sheen observed.
MW - 31S	9/29/2020	11.30	--	12 - 4	0.31	387.92	7.45	7.76	380.47	N	NA	Good condition; Gray cloudy water initially noted during purging.
	3/2/2021	11.34	--	12 - 4	0.31	387.92	6.61	6.92	381.31	N	NA	Well in good condition. Initial heavy silt during purging and became clear. No odor or sheen noted. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry
	6/7/2021	11.53	--	12 - 4	0.31	387.92	6.81	7.12	381.11	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	9/7/2021	11.55	--	12 - 4	0.31	387.92	6.95	7.26	380.97	N	NA	Good condition. No odor or sheen noted. YSI technical difficulties, so team purged 3 well volumes before sampling.
	12/6/2021	11.62	--	12 - 4	0.31	387.92	6.79	7.10	381.13	N	NA	Fine condition. White flakes observed in the purged water. No odor noted.
	6/28/2022	11.59	_	12 - 4	0.31	387.92	7.52	7.83	380.40	N	NA	Good condition; rusted lock removed.
	9/19/2022	11.60	_	12 - 4	0.31	387.92	7.20	7.51	380.72	N	NA	Good condition; slight NAPL-like odor during sampling.
MW - 33S*	9/29/2020	9.52	--	10 - 2.5	0.27	387.55	6.89	7.16	380.66	N	NA	Good condition; Rust-colored water initially noted during purging.
	3/2/2021	9.51	--	10 - 2.5	0.27	387.55	2.08	2.35	385.47	N	NA	Well in good condition. Very rusty water (likely iron accumulation) near bottom of screen and no odor or sheen noted. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry.
	6/7/2021	9.48	--	10 - 2.5	0.27	387.55	4.33	4.60	383.22	N	NA	Well in good condition. Purge water initially tan and cleared towards end of purge, no odor or sheen noted.
	9/7/2021	9.47	--	10 - 2.5	0.27	387.55	4.33	4.60	383.22	N	NA	Good condition. Rust-like substance on the well casing and tubing. No sheen or odor noted.
	12/6/2021	9.51	--	10 - 2.5	0.27	387.55	3.60	3.87	383.95	N	NA	Fine condition, no odor or sheen observed.
	6/28/2022	9.48	-	10 - 2.5	0.27	387.55	5.12	5.39	382.43	N	NA	Good condition; rusted lock on plug;iron bacteria on probe.
	9/19/2022	9.50	-	10 - 2.5	0.27	387.55	6.35	6.62	381.20	N	NA	Good condition; rusted lock on plug; slight chemical odor during sampling.
	12/19/2022	9.49	-	10 - 2.5	0.27	387.55	3.51	3.78	384.04	N	NA	Good condition; rusted lock on plug.
MW - 40	9/29/2020	8.30	--	9 -3	0.40	386.99	6.71	7.11	380.28	N	NA	Good condition; Light brown cloudy water initially noted during purging.
	3/2/2021	8.39	--	9 -3	0.40	386.99	3.09	3.49	383.90	N	NA	Well in good condition. Purge water initially brown and then clear. A 'cleaning supply' (chemical-like) odor was noted and no sheen observed. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry
	6/7/2021	9.38	--	9 - 3	0.40	386.99	4.99	5.39	382.00	N	NA	Concrete pad loose. Purge water clear, and no odor or sheen noted.
	9/7/2021	8.36	--	9 - 3	0.40	386.99	5.05	5.45	381.94	N	NA	Located in driveway of private property. Concrete collar is broken. No odor or sheen noted. Repair concrete collar as soon as practicable.
	12/6/2021	8.37	--	9 - 3	0.40	386.99	4.28	4.68	382.71	N	NA	Poor condition, no odor or sheen observed.
	6/28/2022	8.39	-	9 - 3	0.40	386.99	5.52	5.92	381.47	N	NA	Well heaving; concrete cracked and raised; no bolts present; concrete around lock on plug; well purged dry on 6/29/22; sampled on 6/30/22.
	9/19/2022	8.11	-	9 - 3	0.40	386.99	5.69	6.09	381.30	N	NA	Cover and casing replaced since last monitoring event; rusted lock on plug.
	12/19/2022	8.14	-	9 - 3	0.40	386.99	3.80	4.20	383.19	N	NA	Good condition; plug broken.
MW - 45S	9/29/2020	17.00	15 - 14	14 - 4	0.31	386.70	5.25	5.56	381.45	N	NA	Good condition; Gray cloudy water initially noted during purging.
	3/2/2021	14.72	15 - 14	14 - 4	0.31	386.70	3.39	3.70	383.31	N	NA	Well in good condition. Purge water initially brown and then clear. Some rusty particulate (likely iron accumulation) was observed 5 minutes into purging. No odor or sheen noted. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry
	6/7/2021	14.68	15 - 14	14 - 4	0.31	386.70	4.74	5.05	381.96	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.
	9/7/2021	14.85	15 - 14	14 - 4	0.31	386.70	4.55	4.86	382.15	N	NA	Good condition. No odor or sheen noted. Very poor recharge rate, ran dry during purging and allowed to recharge prior to completion of sampling. Re-developed following sampling, 0.07 feet of depth gained (14.78 - 14.85 ft bTOC).
	12/6/2021	19.80	15 - 14	14 - 4	0.31	386.70	4.15	4.46	382.55	N	NA	Fine condition, no odor or sheen observed. Ran dry and was sampled at a later time. An attempt to removed sediments and residual solids was made at the end of the GME, no additional depth was gained
	6/28/2022	14.90	15 - 14	14 - 4	0.31	386.70	5.10	5.41	381.60	N	NA	Missing one bolt; purged dry on 6/28/22; sampled on 6/29/22.
	9/19/2022	14.82	15 - 14	14 - 4	0.31	386.70	5.29	5.60	381.41	N	NA	Missing one bolt; samples had a slight yellow tint with brown flecks.
	12/19/2022	14.76	15 - 14	14 - 4	0.31	386.70	3.96	4.27	382.74	N	NA	Good condition; silt on bottom
MW - 46S	9/29/2020	16.70	--	18 - 8	0.37	387.21	5.01	5.38	382.60	N	NA	Good condition; Water clear during purging.
	3/2/2021	17.02	--	18 - 8	0.37	387.21	3.66	4.03	383.55	N	NA	Well in good condition. Purge water tinted light brown and rust particulate (likely iron accumulation) observed. Slight sulfur odor noted. No sheen noted.
	6/7/2021	16.78	--	18 - 8	0.37	387.21	4.13	4.50	383.08	N	NA	Well in good condition. Purge water clear, and no odor or sheen noted.
	9/7/2021	16.88	--	18 - 8	0.37	387.21	4.34	4.71	382.87	N	NA	Good condition. A brown substance was left of the interface probe after gauging. Slight organic/product-like odor observed during gauging and sampling. Sheen was observed in purge water. Dup-1 collected.
	12/6/2021	16.88	--	18 - 8	0.37	387.21	3.80	4.17	383.41	N	NA	Fine condition. Product like odor indicated during gauging. Sheen observed on purge water
	9/19/2022	16.85	_	18 - 8	0.37	387.21	4.88	5.25	382.33	Y	0.1	Good condition; sheen on purge water; NAPL-like odor while sampling; trace NAPL in bottom of well.
	6/28/2022	16.84	_	18 - 8	0.37	387.21	4.53	4.90	382.68	Y	0.1	Plug not on casing; NAPL-like odor; sheen on purge water; trace of NAPL on probe.
	12/19/2022	16.81	_	18 - 8	0.37	387.21	3.89	4.26	383.32	N	NA	Good condition; NAPL-like odor and sheen while sampling.
	3/22/2023	16.81	_	18 - 8	0.37	387.21	3.83	4.20	383.38	N	NA	Good condition; NAPL-like odor and sheen while sampling.

Table 1. Q1 2023 Water Level Measurements and Well Condition Summary
NYSEG - Ithaca Court Street MGP
Ithaca, NY

Well ID	Date Gauged	Total Depth[1] (ft bTOC)	Sump Interval (ft bTOC)	Screen Interval (ft bTOC)	Difference between bTOC & bgs (ft)	Elevation of TOC (ft)	Depth to Water (ft bTOC)	Depth to Water (ft bgs)	Water Elevation	NAPL Observed (Y/N)	NAPL Thickness (ft)	Well Condition and Sampling Notes
MW - 47S	9/29/2020	14.50	--	15 - 5	0.32	387.45	5.01	5.33	382.44	N	NA	Good condition; Gray cloudy water initially noted during purging.
	3/2/2021	14.69	--	15 - 5	0.32	387.45	3.87	4.19	383.58	N	NA	Well head rusted. Purge water was clear with rust particulates (likely iron accumulation). No odor or sheen was noted.
	6/7/2021	14.64	--	15 - 5	0.32	387.45	4.67	4.99	382.78	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.
	9/7/2021	14.65	--	15 - 5	0.32	387.45	4.75	5.07	382.70	N	NA	Good condition. Black particulates observed in purge water. No odor noted. YSI technical difficulties, so team purged 3 well volumes before sampling. Well went dry and was allowed to recharge before sampling.
	12/6/2021	14.86	--	15 - 5	0.32	387.45	4.33	4.65	383.12	N	NA	Fine condition, no odor or sheen observed. Ran dry and was sampled at a later time.
	6/28/2022	15.00	--	15 - 5	0.32	387.45	4.95	5.27	382.50	N	NA	Missing one bolt; purged dry during sampling on 6/30/22; samples slightly murky.
	9/19/2022	14.93	--	15 - 5	0.32	387.45	5.37	5.69	382.08	N	NA	Missing one bolt; rubber gasket on plug broken; purged dry on 9/20; sampled on 9/21; samples slightly cloudy and suspended particles visible in samples.
	12/19/2022	15.90	--	15 - 5	0.32	387.45	4.20	4.52	383.25	N	NA	Missing one bolt.
MW - 48S	9/29/2020	14.30	15 - 14	14 - 4	0.30	386.85	4.12	4.42	382.73	N	NA	Good condition; Gray/black cloudy water initially noted during purging and odor noted during sampling.
	3/2/2021	13.24	15 - 14	14 - 4	0.30	386.85	3.51	3.81	383.34	N	NA	Well in good condition. Purge water initially cloudy and then clear. A slight sulfur odor was noted at the commencement of purging. No sheen was noted. Approx. 5 gallons removed post-sampling to remove previously noted sedimentation/residual solids^ before well ran dry.
	6/7/2021	13.20	15 - 14	14 - 4	0.30	386.85	3.98	4.28	382.87	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.
	9/7/2021	13.38	15 - 14	14 - 4	0.30	386.85	3.88	4.18	382.97	N	NA	Good condition. Faint organic-like (clay) odor noted during gauging. Product-like odor observed during first few minutes of purging. No sheen observed. Re-developed following sampling, 0.09 feet of depth gained. (13.39 - 13.48 ft bTOC).
	12/6/2021	13.52	15 - 14	14 - 4	0.30	386.85	3.78	4.08	383.07	N	NA	Fine condition, sheen observed. Metallic-like odor observed during purging. An attempt to remove sediments and residual solids was made at the end of the GME, 0.03ft of depth was gained.
	6/28/2022	13.42	15 - 14	14 - 4	0.30	386.85	4.10	4.40	382.75	N	NA	NAPL-like odor when sampling; sheen on purge water.
	9/19/2022	13.46	15 - 14	14 - 4	0.30	386.85	4.12	4.42	382.73	N	NA	Good condition; NAPL-like odor when sampling.
	12/19/2022	15.42	15 - 14	14 - 4	0.30	386.85	3.68	3.98	383.17	Y	Trace	Good condition; trace of NAPL on probe during gauging.
	3/22/2023	13.42	15 - 14	14 - 4	0.30	386.85	3.69	3.99	383.16	N	NA	Good condition; NAPL-like odor when sampling.

Notes:
* - MW-33S was mislabeled as MW-36S during the 2021 Q4 GME on field forms, chain of custody, and lab report.
1. Measured at the time of gauging
2. ft bTOC- feet below top of casing
3. ft bgs - feet below ground surface
4. NM - Not measured
5. -- Information not available.
6. NC - Not calculated as ground surface elevation data not available
7. NA - Not applicable
Information for observations before June 2022 provided by AECOM

Table 2. Q1 2023 Groundwater Analytical Results
NYSEG - Ithaca Court Street MGP
Ithaca, NY

			Sample Name	MW-13S	DUP	MW-22S	MW-23S	MW-46S	MW-48S	MW-C11	MW-C12	MW-C16
			Sample Date	3/22/2023	3/22/2023	3/23/2023	3/23/2023	3/23/2023	3/23/2023	3/22/2023	3/22/2023	3/22/2023
			Parent Sample		MW-13S							
Analyte	**Units**	**CAS No.**	**NYS AWQS**									
BTEX	ug/L											
Benzene		71-43-2	1	0.5 U	0.5 U	0.5 U	**1.4**	**980**	**35**	0.5 U	**3.6**	0.5 U
Toluene		108-88-3	5	2.5 U	2.5 U	2.5 U	**2.3 J**	**24 J**	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene		100-41-4	5	2.5 U	2.5 U	2.5 U	**69**	**770**	**20**	2.5 U	**2.1 J**	2.5 U
o-Xylene		95-47-6	5	2.5 U	2.5 U	2.5 U	**36**	**230**	**11**	2.5 U	2.5 U	2.5 U
m/p-Xylene		179601-23-1	5	2.5 U	2.5 U	2.5 U	**10**	**160**	**1.9 J**	2.5 U	2.5 U	2.5 U
Total BTEX (ND=0)			NE	ND	ND	ND	**118.7**	**2164**	**67.9**	ND	**5.7**	ND
PAH17	ug/L											
Acenaphthene		83-32-9	20*	0.1 U	0.1 U	0.1 U	**70**	**50**	**18**	**0.38**	**55**	**9.3**
Acenaphthylene		208-96-8	NE	0.1 U	0.1 U	0.1 U	**1.5**	**4.4**	**0.51**	**0.06 J**	**0.58**	**0.21**
Anthracene		120-12-7	50*	0.1 U	0.1 U	0.1 U	**3.8**	**2.8**	**0.6**	0.1 U	**0.05 J**	**0.04 J**
Benzo(a)anthracene		56-55-3	0.002*	0.1 U	0.1 U	0.1 U	**0.15 J**	**3.4**	**0.04 J**	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene		205-99-2	0.002*	0.1 U	0.1 U	0.1 U	0.5 U	**2.3**	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(k)fluoranthene		207-08-9	0.002*	0.1 U	0.1 U	0.1 U	0.5 U	**0.92**	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(g,h,i)perylene		191-24-2	NE	0.1 U	0.1 U	0.1 U	0.5 U	**1.1**	0.1 U	0.1 UJ	0.1 U	0.1 U
Benzo(a)pyrene		50-32-8	ND	0.1 U	0.1 U	0.1 U	0.5 U	**3.4**	0.1 U	0.1 U	0.1 U	**0.03 J**
Chrysene		218-01-9	0.002*	0.1 U	0.1 U	0.1 U	**0.06 J**	**3.1**	**0.02 J**	0.1 U	0.1 U	**0.03 J**
Dibenz(a,h)anthracene		53-70-3	NE	0.1 U	0.1 U	0.1 U	0.5 U	**0.38**	0.1 U	0.1 UJ	0.1 U	0.1 U
Fluoranthene		206-44-0	50*	0.1 U	0.1 U	0.1 U	**1.5**	**3.6**	**0.28**	0.1 U	**0.04 J**	**0.28**
Fluorene		86-73-7	50*	0.1 U	0.1 U	0.1 U	**19**	**13**	**1.4**	0.1 U	**8.1**	**0.83**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.1 U	0.1 U	0.1 U	0.5 U	**1.1**	0.1 U	0.1 UJ	0.1 U	0.1 U
2-Methylnaphthalene		91-57-6	NE	0.1 U	0.1 U	0.1 U	**94**	**220**	**1.7**	0.1 U	0.1 U	0.1 U
Naphthalene		91-20-3	10*	0.1 U	0.1 U	0.1 U	**130**	**1400**	**16**	0.1 U	0.1 U	**0.07 J**
Phenanthrene		85-01-8	50*	0.1 U	0.1 U	0.1 U	**17**	**11**	**2**	0.1 U	**0.44**	**0.14**
Pyrene		129-00-0	50*	0.1 U	0.1 U	0.1 U	**2**	**6.2**	**0.37**	**0.02 J**	**0.04 J**	**0.42**
Total PAH (17) (ND=0)			NE	ND	ND	ND	**339.01**	**1726.7**	**40.92**	**0.46**	**64.25**	**11.35**
Cyanides	mg/L											
Total Cyanide		57-12-5	0.2	0.005 U	0.005 U	**0.37**	**0.005**	0.005 U	**0.002 J**	**0.011**	**0.004 J**	**0.005**
Field Measurements												
Temp	°C	---	---	11.48	---	9.67	9.63	11.34	10.03	12.75	13.41	14.76
Specific Conductivity	mS/cm	---	---	2.29	---	0.717	1.39	0.861	2.25	5.11	1.27	4.16
DO	mg/L	---	---	2.39	---	3.61	0.83	0.76	0.74	0.8	0.57	0.83
pH	S.U.	---	---	6.77	---	6.51	6.52	6.67	6.82	6.65	6.89	6.75
ORP	mV	---	---	149	---	63	-49	-143	-96	-177	-139	-191
Turbidity	NTU	---	---	1.3	---	1.1	1.9	4	7.8	21.5	2.9	144

Figures

LEGEND:

- MONITORING WELL SAMPLED AS PART OF SITE MANAGEMENT PLAN
- MONITORING WELL NOT INCLUDED IN LONG TERM MONITORING PLAN
- MONITORING WELL ABANDONED ON DECEMBER 19, 2022

N

MW-29S MW-30S
CASCADILLA STREET
MW-23D MW-23S
MW-31S
MW-38
MW-47S
MW-40
MW-45S MW-48S
PARK PLACE
NORTH PLAIN STREET
MW-14S
MW-14D
MW-C15 MW-C16
MW-C17
MW-C14 MW-27
MW-C11 MW-C13
MW-C12
MW-11D
MW-25S MW-43S MW-11S MW-41S MW-12S
ESTY STREET
MW-20S
MW-20D
MW-22S
MW-22D
MW-32S
MW-42
MW-46S
MW-37
WASHINGTON STREET
MW-33S
MW-26S
MW-34S
MW-24S
MW-24D
OU-1
WALL
POOL
NORTH ALBANY STREET
MW-13S MW-13S
WEST COURT STREET
MW-35S
MW-17S
MW-17D
MW-28S
PLAYGROUND
PAVED
MW-21S
MW-21D

0 100 200
SCALE: 1" = 100'

Groundwater Monitoring Event Report - 2023 Q1
Ithaca Court Street Former MGP Site
Ithaca, New York

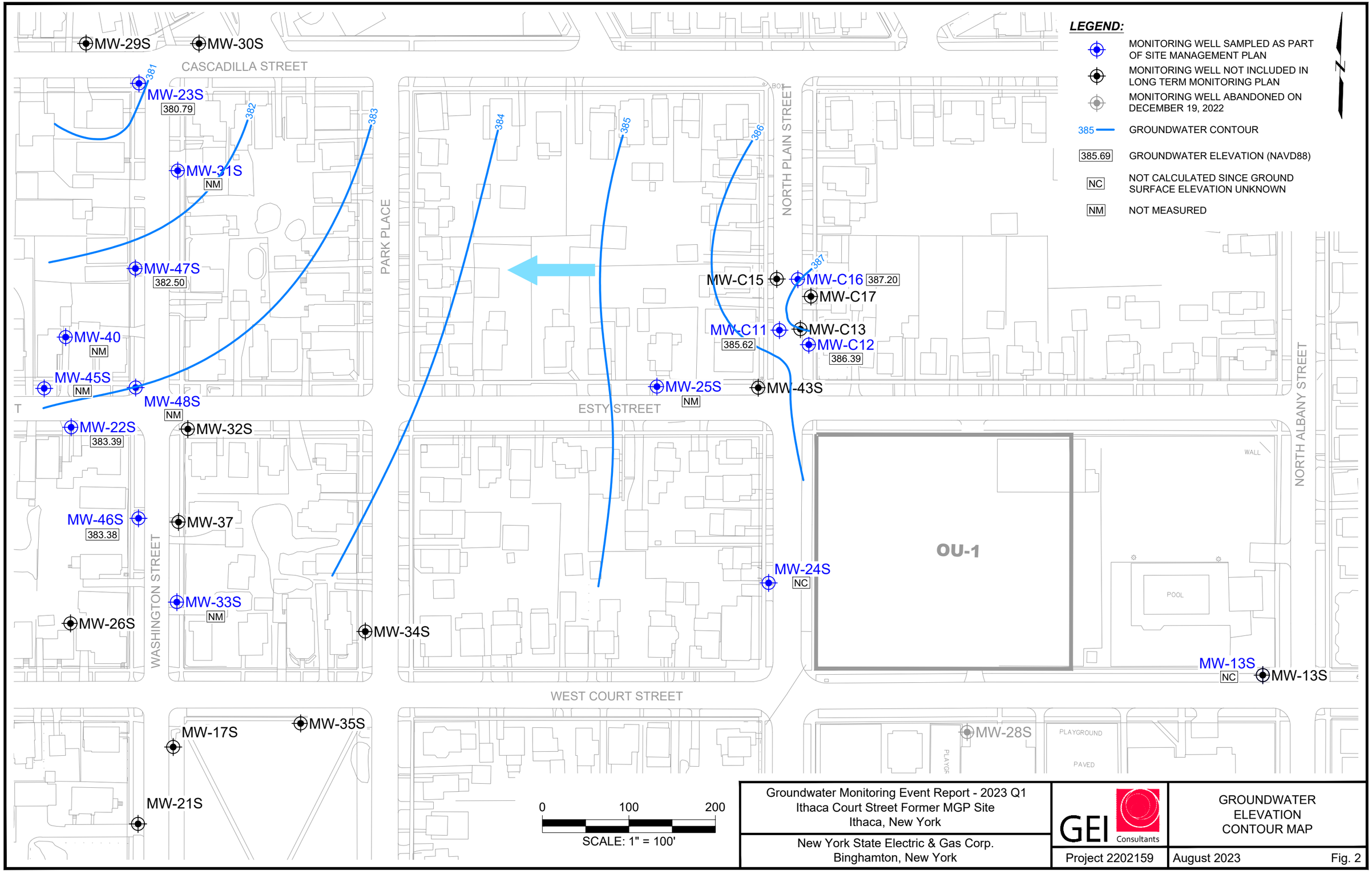
New York State Electric & Gas Corp.
Binghamton, New York

GEI Consultants

MONITORING WELL LOCATION MAP

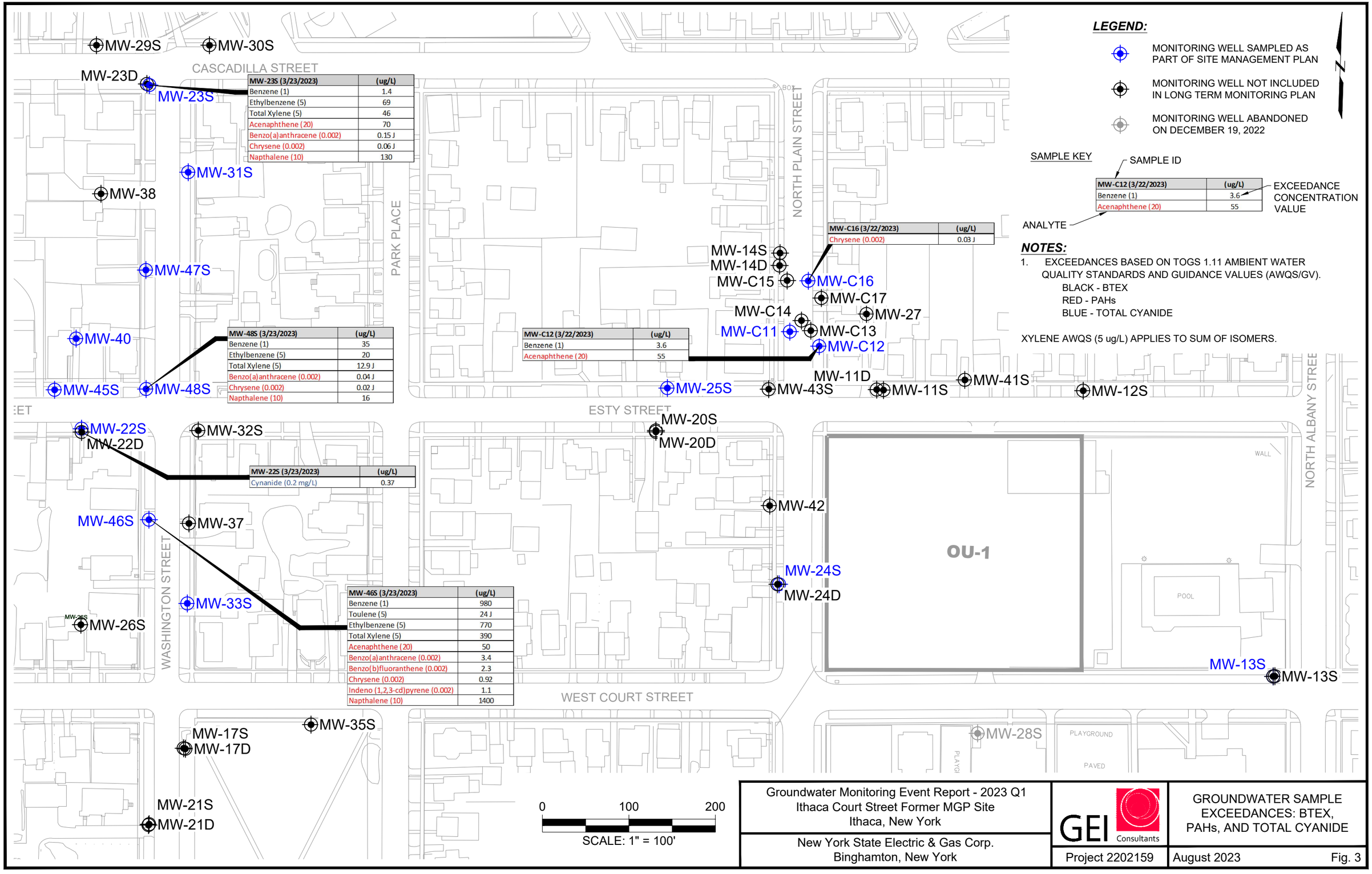
Project 2202159 | August 2023 | Fig. 1

EDDY, DEREK B:\Working\NYSEG\2202159 Ithaca Court St Groundwater Monitoring\00_CAD\Figures\GWMER 2023 Q1\1 2202159-GWMER 2023 Q1-MWLM.dwg - 8/10/2023



Groundwater Monitoring Event Report - 2023 Q1 Ithaca Court Street Former MGP Site Ithaca, New York	GEI Consultants	GROUNDWATER ELEVATION CONTOUR MAP
New York State Electric & Gas Corp. Binghamton, New York	Project 2202159	August 2023 Fig. 2

EDDY, DEREK B:\Working\NYSEG\2202159 Ithaca Court St Groundwater Monitoring\00_CAD\Figures\GWMER 2023 Q1\2 2202159-GWMER 2023 Q1-GW-Cont.dwg - 8/10/2023



LEGEND:

- MONITORING WELL SAMPLED AS PART OF SITE MANAGEMENT PLAN
- MONITORING WELL NOT INCLUDED IN LONG TERM MONITORING PLAN
- MONITORING WELL ABANDONED ON DECEMBER 19, 2022

N

SAMPLE KEY

MW-C12 (3/22/2023)	(ug/L)
Benzene (1)	3.6
Acenaphthene (20)	55

SAMPLE ID

EXCEEDANCE CONCENTRATION VALUE

ANALYTE

NOTES:

1. EXCEEDANCES BASED ON TOGS 1.11 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES (AWQS/GV).
   BLACK - BTEX
   RED - PAHs
   BLUE - TOTAL CYANIDE

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

Groundwater Monitoring Event Report - 2023 Q1
Ithaca Court Street Former MGP Site
Ithaca, New York

New York State Electric & Gas Corp.
Binghamton, New York

GEI Consultants

GROUNDWATER SAMPLE EXCEEDANCES: BTEX, PAHs, AND TOTAL CYANIDE

Project 2202159 | August 2023 | Fig. 3

EDDY, DEREK B:\Working\NYSEG\2202159 Ithaca Court St Groundwater Monitoring\00_CAD\Figures\GWMER 2023 Q1\3 2202159-GWMER 2023 Q1-GW Data.dwg - 8/10/2023

Attachment 1

Field Sampling Records

Low-Flow Groundwater Sampling Form

Project number and name: 2202159 ICS

Sampling personnel: S. Desharnais

Sample date: 3/22/23

Well ID: MW-13S

Well location description: Corner of N Albany W Court St.

Well Construction

Well diameter: 2"

Well measurement point: TIC

Roadbox condition: missing bolt, no lock on cap

Well screen interval: 5-15'

Well depth: 14.39'

Sampling Information

Initial depth to water: 6.72' Time: 9:30

Sample intake depth: ~~11'~~

Pump type and ID: Peri pump & Horiba

Stabilized flow rate: 0.042

Stabilized flow rate = flow rate with no further drawdown

Samples Collected

VOCs 8260 ☐

SVOCs 8270 ☐

VPH ☐

EPH ☐

Metals ☐

PCBs ☐

Other ☐ * See COC

Field values at time of sample collection:

Time: 1020

Sp.Cond. 2.29 mS/cm

DO 2.39 mg/L

ORP 149 mV

pH 6.77 s.u.

Temp. 11.48 °C

Turb. 1.3 NTU

Depth to water: NM

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
9:30	0.00		8.71	2.81	30.59	7.24	172	90.6
9:35	0.25		9.61	2.84	9.50	7.01	168	53.3
9:40	0.5		10.37	2.80	6.83	6.92	163	49.6
9:45	0.65		10.78	2.79	6.00	6.89	153	29.6
9:50	1.80		11.00	2.75	9.39	6.89	148	14.8
9:55	1.05		11.19	2.66	4.89	6.88	144	9.39
10:00	1.15		11.31	2.52	9.39	6.87	143	6.5
10:05	1.50		11.28	2.42	3.58	6.86	144	4.7
10:10	1.75		11.40	2.38	1.01	6.82	147	2.7
10:15	~~1.44~~	1.90 gal	11.42	2.34	2.84	6.80	147	2.0
10:20	2.10		11.48	2.29	2.39	6.77	149	1.3

Notes: [redacted] SFR = volume collected (gal) / time (min)

Sample Information:

Sample ID: MW-13S

Sample Time: 10:20

Color: ~~yellowish~~ clear

Turbidity: 1.3 NTU

Field Filtered YES / NO (circled: NO) Analyses: N/A

Filter type: N/A

Odor/Sheen/NAPL: NO

Duplicate Collected YES / NO (circled: YES)

If yes, duplicate ID: DUP

Purge water disposal? to ground / drummed (circled) / other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2 (circled)	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

SFR = volume (gal) / time (min)   2.10 / 50

Low-Flow Groundwater Sampling Form

Project number and name: 2202159 ICS | Sampling personnel: S. DeRosiers | Sample date: 3/22/23 | Well ID: MW-C16

Well location description: On N Plain St, north of Esty St.

Well Construction

Well diameter	2"
Well measurement point	TIC
Roadbox condition	missing bolt
Well screen interval	9'-14'
Well depth	16.03'

Sampling Information

Initial depth to water	4.05 Time: 11:15
Sample intake depth	11'
Pump type and ID	Horiba + Peri pump
Stabilized flow rate	0.04 gal/min

Stabilized flow rate = flow rate with no further drawdown

Samples Collected

VOCs 8260	☐
SVOCs 8270	☐
VPH	☐
EPH	☐
Metals	☐
PCBs	☐
Other	☐

☆ See COC

Field values at time of sample collection:

Time:	12:30 SD	
Sp.Cond.	4.16	mS/cm
DO	0.83	mg/L
ORP	-191	mV
pH	6.75	s.u.
Temp.	14.76	°C
Turb.	14.4	NTU

Depth to water: 8.80

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
11:15	0.00	4.05	16.40	5.84	2.31	6.74	190	29.2
11:20	0.15	5.21	15.21	5.73	1.21	6.72	123	20.1
11:25	0.45	6.21	13.94	6.35	0.70	6.71	65	23.7
11:30	0.60	6.87	13.82	6.16	0.66	6.72	39	23.2
11:35	0.80	7.45	13.81	5.90	0.70	6.72	17	22.1
11:40	1.00	7.80	13.[illegible]6	5.75	0.69	6.72	-1	21.2
11:45	1.15	8.24	14.03	5.45	0.71	6.74	-38	19.4
11:50	1.50	8.45	14.17	5.28	0.74	6.74	-51	18.1
11:55	1.65	8.64	14.36	5.06	0.78	6.75	-76	16.7
12:00	1.90	8.70	14.44	4.96	0.79	6.75	-86	16.5
12:05	2.00	8.74	14.64	4.79	1.13	6.74	-109	15.5
12:10	2.30	8.50	15.01	4.60	0.87	6.77	-139	15.0
12:15	2.35	8.55	15.00	4.52	0.87	6.77	-143	14.9
12:20	2.45	8.55	15.01	4.43	0.87	6.76	-160	14.4
12:25	2.60	8.55	14.92	4.51	0.91	6.74	-179	14.6
12:30	~~8.00~~	8.80	14.76	4.16	0.83	6.75	-191	14.4
	3.00 SD							

Sample Information:

Sample ID	MW-C16
Sample Time:	12:30 SD
Color:	Clear
Turbidity:	clear
Field Filtered YES / NO	NO (circled) — Analyses: N/A
Filter type:	N/A
Odor/Sheen/NAPL	NO
Duplicate Collected YES / NO	NO (circled)
If yes, duplicate ID:	N/A
Purge water disposal?	to ground / drummed (circled) / other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
~~1.5~~	0.09
2 (circled)	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

- Sp.Cond. +/- 3%
- DO +/- 10%
- ORP +/- 10 mV
- pH +/- 0.1 Std Units
- Temp. +/- 3%
- Turb. +/- 10% if values >1 NTU

Guidance:

1. Position tubing at midpoint of saturated screened interval
2. Minimize drop in water level and purge until parameters are stable
3. Disconnect flow thru cell during sampling
4. Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5. For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes: 3 gal / 75 min

Low-Flow Groundwater Sampling Form

Project number and name: 2202151 ICS
Sampling personnel: J. Dekeris
Sample date: 3/21/23
Well ID: MW-C11

Well location description: On N Plain St, north of Esty St.

Well Construction

Well diameter: 2"
Well measurement point: TTC
Roadbox condition: standing water & sludge in roadbox, one bolt missing, hangar broken
Well screen interval: 10'-15'
Well depth: 17.10

Sampling Information

Initial depth to water: 5.24 Time: 1:20
Sample intake depth: 12'
Pump type and ID: Per. pump
Stabilized flow rate: 0.056 gal/min
Stabilized flow rate = flow rate with no further drawdown

Samples Collected

Analysis	
VOCs 8260	
SVOCs 8270	
VPH	
EPH	
Metals	
PCBs	
Other	* see COC

Field values at time of sample collection:

Time: 14:00
Sp.Cond.: 5.11 mS/cm
DO: 0.80 mg/L
ORP: -177 mV
pH: 6.65 s.u.
Temp.: 12.75 °C
Turb.: 21.5 NTU
Depth to water: ~~3.25~~ 6.05

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm) specific cond.	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
13:20	0.05	5.24	18.29	5.14	1.44	6.76	60	23.4
13:25	0.15	5.76	14.59	5.75	1.10	6.73	18	14
13:30	0.50	5.90	13.71	5.57	0.90	6.73	-82	23.9
13:35	0.75	5.96	13.37	5.33	0.34	6.72	-125	29.2
13:40	1.10	6.00	13.08	5.20	0.32	6.70	-146	29.2
13:45	1.40	6.03	12.92	5.17	2.00	6.69	-159	29.0
13:50	1.60	6.05	12.80	5.14	0.29	6.68	-165	28.0
13:55	1.95	6.05	12.77	5.12	0.79	6.66	-172	25.7
14:00	2.25	6.05	12.75	5.11	0.80	6.65	-177	21.5

Sample Information:

Sample ID: MW-C11
Sample Time: 14:10 = MS, 14:20 = MSD
Color: clear
Turbidity: 21.5
Field Filtered YES / NO (NO circled) Analyses: N/A
Filter type: N/A
Odor/Sheen/NAPL: no
Duplicate Collected YES / NO (YES circled) — 3 samples
If yes, duplicate ID: MW-C11 MS, MW-C11_MSD
Purge water disposal? to ground / drummed (circled) / other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval
2 Minimize drop in water level and purge until parameters are stable
3 Disconnect flow thru cell during sampling
4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes:

SFR = Volume (gal) / time (min) → final: 2.25 gal / 40 min = 0.056

Low-Flow Groundwater Sampling Form

Project number and name: 2202159 ICJ

Sampling personnel: J. DesRosiers

Sample date: 3/12/23

Well ID: MW-C12

Well location description: On N Plain St, north of Esty St.

Well Construction

Well diameter: 2"

Well measurement point: TIC

Roadbox condition: no lock on wellcap

Well screen interval: 10-15

Well depth: 17.19'

Sampling Information

Initial depth to water: 5.81 Time: 14:50 SD

Sample intake depth: 12'

Pump type and ID: Peri pump

Stabilized flow rate: 0.056 gal/min

Stabilized flow rate = flow rate with no further drawdown

Samples Collected

VOCs 8260 ☐

SVOCs 8270 ☐

VPH ☐

EPH ☐

Metals ☐

PCBs ☐

Other ☐ * See COC

Field values at time of sample collection:

Time: 15:30

Sp.Cond. 1.27 mS/cm

DO 0.57 mg/L

ORP -139 mV

pH 6.89 s.u.

Temp. 13.41 °C

Turb. 2.9 NTU

Depth to water: 6.65 ft

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
14:50	.05	5.81	17.03	2.09	3.02	7.33	-63	16.2
14:55	.25	6.01	13.72	1.43	1.08	7.27	-75	13.3
15:00	.55	6.6	13.34	1.3	.73	7.05	-85	8.2
15:05	.75	6.6	13.34	1.28	.66	6.95	-95	5.5
15:10	1.25	6.6	13.35	1.28	.64	6.92	-105	5.0
15:15	1.5	6.65	13.37	1.28	.62	6.91	-115	4.5
15:20	1.75	6.65	13.38	1.27	.69	6.90	-124	4.0
15:25	2.0	6.65	13.39	1.27	.58	6.89	-132	2.5
15:30	2.25	6.65	13.41	1.27	.57	6.89	-139	2.9
~~15:35~~								
~~15:40~~ SJ								

Notes:

2.25 gal / 40 min

Sample Information: SJ

Sample ID: ~~15:30~~ MWC12

Sample Time: 15:30

Color: Clear

Turbidity: 2.9 NTU

Field Filtered YES (NO) Analyses: NA

Filter type: NA

Odor/Sheen/NAPL: no

Duplicate Collected YES (NO)

If yes, duplicate ID: NA

Purge water disposal? to ground (drummed) other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 220159 TC Sampling personnel: [illegible] Sample date: 3/22/23 Well ID: MW-23S

Well location description: corner of Washington Pl. + Cascadilla St

Well Construction
- Well diameter: 2"
- Well measurement point: TOC
- Roadbox condition: good
- Well screen interval: 9-14'
- Well depth: 14.62'

Sampling Information
- Initial depth to water: 6.22' Time: 8:45
- Sample intake depth: 12'
- Pump type and ID: Peripump
- Stabilized flow rate: 0.049 gal/min
- Stabilized flow rate = flow rate with no further drawdown

Samples Collected
- VOCs 8260
- SVOCs 8270
- VPH
- EPH
- Metals
- PCBs
- Other ☆ See COC

Field values at time of sample collection:

Time:	9:35	
Sp.Cond.	1.39	mS/cm
DO	0.83	mg/L
ORP	-49	mV
pH	6.52	s.u.
Temp.	9.63	°C
Turb.	1.9	NTU

Depth to water: 6.27 ft

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
8:50	0.05	6.25'	9.99	1.25	1.58	7.62	95	2.7
8:55	0.40	6.27	9.81	1.28	1.08	7.02	85	2.1
9:00	.60	6.27	9.73	1.29	0.91	6.82	65	2.6
9:05	.90	6.26	9.68	1.31	1.00	6.69	36	2.2
9:10	1.00	6.27	9.69	1.33	.97	6.64	12	1.8
9:15	1.25	6.30	9.65	1.33	.95	6.66	-10	1.9
9:20	1.50	6.26	9.67	1.34	.92	6.57	-25	2.1
9:25	1.6	6.27	9.66	1.36	.87	6.55	-35	1.9
9:30	2.0	6.26	9.67	1.37	.84	6.54	-44	2.0
9:35	2.2	6.27	9.63	1.39	.83	6.52	-49	1.9

Notes:

Sample Information:
- Sample ID: MW-23S
- Sample Time: 9:35
- Color: clear
- Turbidity: 1.9 NTU
- Field Filtered YES / NO Analyses: N/A
- Filter type: N
- Odor/Sheen/NAPL: none
- Duplicate Collected YES / NO
- If yes, duplicate ID: NA
- Purge water disposal? to ground drummed other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
- Sp.Cond. +/- 3%
- DO +/- 10%
- ORP +/- 10 mV
- pH +/- 0.1 Std Units
- Temp. +/- 3%
- Turb. +/- 10% if values >1 NTU

Guidance:
1. Position tubing at midpoint of saturated screened interval
2. Minimize drop in water level and purge until parameters are stable
3. Disconnect flow thru cell during sampling
4. Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5. For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 2202.59 ICS | Sampling personnel: J. DosReis | Sample date: 3/23/23 | Well ID: MW-48S

Well location description: corner of Washington St + Etsy St

Well Construction

Well diameter	2"
Well measurement point	TIC
Roadbox condition	good
Well screen interval	8-18'
Well depth	13.42'

Sampling Information

Initial depth to water	3.87 ft Time: 10:00 AM
Sample intake depth	13'
Pump type and ID	Peristaltic pump
Stabilized flow rate	0.05 gal/min

Stabilized flow rate = flow rate with no further drawdown

Samples Collected

VOCs 8260	
SVOCs 8270	
VPH	
EPH	
Metals	
PCBs	
Other	☆ SecCOC

Field values at time of sample collection:

Time:	10:25	Depth to water: 3.91
Sp.Cond.	2.25	mS/cm
DO	0.74	mg/L
ORP	-96	mV
pH	6.82	s.u.
Temp.	10.03	°C
Turb.	7.8	NTU

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
10:00	.05	3.90	9.97	1.90	1.76	6.63	-6	8.7
10:05	.4	3.90	9.88	1.96	1.11	10.68	-24	8.5
10:10	.6	3.93	9.95	2.13	.88	6.74	-54	8.0
10:15	.75	3.90	9.98	2.18	.80	6.79	-78	8.0
10:20	1	3.91	10.01	2.22	.76	6.81	-87	7.4
10:25	1.25	3.91	10.03	2.25	.74	6.82	-96	7.8

Notes:

Sample Information:

Sample ID	MW-48S
Sample Time:	10:25
Color:	clear
Turbidity:	7.8
Field Filtered YES / NO	Analyses: N/A
Filter type:	N/A
Odor/Sheen/NAPL	none
Duplicate Collected YES / NO	
If yes, duplicate ID:	N/A
Purge water disposal?	to ground / drummed / other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 220d159 ICS | Sampling personnel: JD, HC, SJ | Sample date: 3/23/23 | Well ID: MW-22S

Well location description: West of concrete Estry & Washington

Well Construction

Well diameter: 2"
Well measurement point: TIC
Roadbox condition: missing all 3 bolts
Well screen interval: 4-14'
Well depth: 14.59

Sampling Information

Initial depth to water: 3.40 Time: 10:50
Sample intake depth: 9'
Pump type and ID: QED PeriPump
Stabilized flow rate: 0.064 gal/min
Stabilized flow rate = flow rate with no further drawdown

Samples Collected

VOCs 8260	
SVOCs 8270	
VPH	
EPH	
Metals	
PCBs	
Other	★ See COC

Field values at time of sample collection:

Time: 11:25
Depth to water: 3.88 ft

Sp.Cond.	0.717	mS/cm
DO	3.61	mg/L
ORP	63	mV
pH	6.51	s.u.
Temp.	9.67	°C
Turb.	1.1	NTU

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
10:50	0.05	3.65	9.62	0.734	4.05	7.2	-41	2.2
10:55	0.65	3.85	9.37	0.721	4.01	6.8	-17	1.5
11:00	0.9	3.85	9.34	0.720	3.84	6.61	4	1.2
11:05	1.35	3.90	9.43	0.719	3.81	6.54	20	1.2
11:10	1.55	3.88	9.43	0.718	3.82	6.51	34	1.2
11:15	1.75	3.88	9.46	0.717	3.86	6.48	46	1.0
11:20	2.10	3.88	9.53	0.718	3.90	6.47	56	0.9
11:25	2.25	3.88	9.67	0.717	3.61	6.51	63	1.1

Notes:

Sample Information:

Sample ID: MW-22S
Sample Time: 11:25
Color: clear
Turbidity: 1.1 NTU
Field Filtered YES / (NO) Analyses: NA
Filter type: NA
Odor/Sheen/NAPL: none
Duplicate Collected YES (NO)
If yes, duplicate ID: N/A
Purge water disposal? to ground (drummed) other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft
where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval
2 Minimize drop in water level and purge until parameters are stable
3 Disconnect flow thru cell during sampling
4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

SFR = total vol (gal) / total time (min)

Low-Flow Groundwater Sampling Form

Project number and name: 2202159 ICS | Sampling personnel: Jordan Deshaies | Sample date: 3/23/23 | Well ID: MW-46S

Well location description: ~~Door~~ South of Esty x Washington intersection

Well Construction

Well diameter: 2"
Well measurement point: TIC
Roadbox condition: good
Well screen interval: 4-14ft
Well depth: 16.81ft

Sampling Information

Initial depth to water: 3.8ft Time: 11:45am
Sample intake depth: 9ft
Pump type and ID: Peri pump
Stabilized flow rate: 0.044 gal/min
Stabilized flow rate = flow rate with no further drawdown

* See CoC

Samples Collected

VOCs 8260	
SVOCs 8270	
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	12:45	
Sp.Cond.	0.861	mS/cm
DO	0.76	mg/L
ORP	-143	mV
pH	6.67	s.u.
Temp.	11.34	°C
Turb.	4.0	NTU

Depth to water: 4.14 ft

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Temp. (°C)	Sp.Cond. (mS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	0.05 to 5	0 to 4	5 to 7	-100 to +500	aim for <10
11:50	0.25	4.06	10.93	0.784	1.35	6.57	110	11.1
11:55	0.25	4.12	11.04	0.777	0.85	6.61	89	7.6
12:00	0.50	4.17	11.11	0.776	0.72	6.64	53	6.1
12:05	.75	4.17	11.14	0.782	0.66	6.66	3	5.4
12:10	1.00	4.17	11.18	0.794	0.67	6.66	-39	4.7
12:15	1.25	4.17	11.26	0.806	0.68	6.65	-68	4.3
12:20	1.5	4.14	11.32	0.821	0.71	6.66	-89	4.2
12:25	1.51	4.09	11.41	0.825	0.77	6.66	-103	3.7
12:30	1.65	4.13	11.33	0.841	0.77	6.66	-115	4.2
12:35	2.00	4.17	11.32	0.853	0.73	6.67	-127	4.2
12:40	2.25	4.15	11.33	0.861	0.74	6.67	-135	4.0
12:45	2.40	4.14	11.34	0.861	0.76	6.67	-143	4.0

Notes:

Sample Information:

Sample ID: MW-46S
Sample Time: 12:45
Color: Clear ~~ID~~ Murky w/ particulate matter
Turbidity: 4.0 NTU
Field Filtered YES / (NO) Analyses: NA
Filter type: NA
Odor/Sheen/NAPL: none
Duplicate Collected YES / (NO)
If yes, duplicate ID: NA
Purge water disposal? to ground (drummed) other:

Well Volume Conversion:	
Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval
2 Minimize drop in water level and purge until parameters are stable
3 Disconnect flow thru cell during sampling
4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Attachment 2

Data Usability Summary Report

Site: Ithaca Court Street
Laboratory: Alpha Analytical
Report Number: L2315690
Reviewer: Lorie MacKinnon/GEI Consultants
Date: April 25, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-13S	L2315690-01	BTEX, PAH, Cyanide
MW-C16	L2315690-02	BTEX, PAH, Cyanide
MW-C11	L2315690-03	BTEX, PAH, Cyanide
MW-C12	L2315690-04	BTEX, PAH, Cyanide
MW-23S	L2315690-05	BTEX, PAH, Cyanide
MW-48S	L2315690-06	BTEX, PAH, Cyanide
MW-22S	L2315690-07	BTEX, PAH, Cyanide
MW-46S	L2315690-08	BTEX, PAH, Cyanide
DUP	L2315690-09	BTEX, PAH, Cyanide

Associated QC Samples:
Field Duplicate pair: MW-13S/DUP

The above-listed aqueous samples were collected on March 22 and 23, 2023 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260D, polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270E-SIM, and total cyanide by SW-846 method 9012B. The data validation was performed based on the following USEPA Region 2 Documents: SOP HW-33A (Revision 1) *Low/Medium Volatile Data Validation* (September 2016), Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016), and SOP 3c (Revision 1), *SOP for the Evaluation of Cyanide for the Contract Laboratory Program* (September 2016), as well as by the methods referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All data appear usable as reported or usable with minor qualification due to laboratory blank contamination, matrix spike recovery outliers, and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All hold time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

Blanks

Contamination was not detected in the laboratory instrument and method blank samples, except where noted below.

Analyte	Blank ID/Associated samples	Concentration Detected	2X Level	10X Level	Validation Actions
PAH					
Benzo(a)anthracene	Method WG17598424-1/ MW-13S, MW-C16, MW-C11, MW-C12, DUP	0.03 ug/L	0.06 ug/L	0.3 ug/L	Qualify the result for benzo(a)anthracene as nondetect (U) at the RL in samples MW-C16 and MW-C12.
Benzo(b)fluoranthene		0.02 ug/L	0.04 ug/L	0.2 ug/L	Qualify the results for benzo(b)fluoranthene and benzo(k)fluoranthene as nondetect (U) at the RL in sample MW-C16.
Benzo(k)fluoranthene		0.02 ug/L	0.04 ug/L	0.2 ug/L	
Benzo(ghi)perylene		0.03 ug/L	0.06 ug/L	0.3 ug/L	Validations actions were not required.
Indeno(123-cd)pyrene		0.02 ug/L	0.04 ug/L	0.3 ug/L	

Blank Actions:
If the sample result is <2x blank contamination detected or <RL; professional judgment was taken to report the result as nondetect (U) at the reported sample level or RL.
If the sample result is ≥ 2x Blank Level (or RL) and < 10x Blank Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Blank Level; validation action was not required.

Surrogate Recoveries

All surrogate recovery criteria were met except where noted below.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
PAH				
MW-23S	Nitrobenzene-d5	121	23-120	Validation actions were not required as one surrogate was outside of control limits as is acceptable per the method.
MW-22S	Nitrobenzene-d5	125		
MW-46S	Nitrobenzene-d5	130		

MS/MSD Results

MS/MSD analyses were performed on sample MW-C11 for BTEX, PAH, and cyanide. All recovery and precision criteria were met, for sample levels less than four times the spike, except where noted below.

Analyte	MS/MSD Recovery (%)	RPD (%)	QC Limits (%)	Validation Actions
MS Sample MW-C11				
PAH				
Benzo(ghi)perylene	26, 20	-	40-140	Estimate (UJ) the nondetect results for benzo(ghi)perylene, dibenzo(ah)anthracene, and indeno(123-cd)pyrene in sample MW-C11; Low bias.
Dibenzo(ah)anthracene	28, 21	-		
Indeno(123-cd)pyrene	30, 23	-		
- Criteria met				

Laboratory Duplicate Results

MSD analyses were performed in lieu of laboratory duplicate analyses.

LCS/LCSD Results

All recovery and precision criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples MW-13S and DUP were submitted as the field duplicate pair with this sample group. All results were nondetect in these samples.

Quantitation Limits

Results were reported which were below the quantitation limit/reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	Analysis	Dilution Reported
MW-23S	PAH	The sample was analyzed at a 5-fold dilution. RLs were elevated in this sample.
MW-46S	PAH	The sample was analyzed undiluted and at a 5-fold dilution. Results were combined to report all results within the calibration range and the lowest reporting limits.
	BTEX	The sample was analyzed at a 10-fold dilution. All results were detected.

Sample Quantitation and Compound Identification

Calculations were spot-checked. Compound identification criteria were met.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-01
Client ID: MW-13S
Sample Location: ITHACA NY

Date Collected: 03/22/23 10:20
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 09:02
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

ALPHA

JAM 4/11/23

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-02
Client ID: MW-C16
Sample Location: ITHACA NY

Date Collected: 03/22/23 12:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 09:23
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-03
Client ID: MW-C11
Sample Location: ITHACA NY

Date Collected: 03/22/23 14:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 09:44
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-04
Client ID: MW-C12
Sample Location: ITHACA NY

Date Collected: 03/22/23 15:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 10:05
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	3.6		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	2.1	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-05
Client ID: MW-23S
Sample Location: ITHACA NY

Date Collected: 03/23/23 09:35
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 10:26
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	1.4		ug/l	0.50	0.16	1
Toluene	2.3	J	ug/l	2.5	0.70	1
Ethylbenzene	69		ug/l	2.5	0.70	1
p/m-Xylene	10		ug/l	2.5	0.70	1
o-Xylene	36		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-06
Client ID: MW-48S
Sample Location: ITHACA NY

Date Collected: 03/23/23 10:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 10:46
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	35		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	20		ug/l	2.5	0.70	1
p/m-Xylene	1.9	J	ug/l	2.5	0.70	1
o-Xylene	11		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-07
Client ID: MW-22S
Sample Location: ITHACA NY

Date Collected: 03/23/23 11:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 11:07
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08 D
Client ID: MW-46S
Sample Location: ITHACA NY

Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 11:28
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	980		ug/l	5.0	1.6	10
Toluene	24	J	ug/l	25	7.0	10
Ethylbenzene	770		ug/l	25	7.0	10
p/m-Xylene	160		ug/l	25	7.0	10
o-Xylene	230		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-09
Client ID: DUP
Sample Location: ITHACA NY

Date Collected: 03/22/23 00:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 11:49
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-01
Client ID: MW-13S
Sample Location: ITHACA NY

Date Collected: 03/22/23 10:20
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 13:14
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	68		15-120
4-Terphenyl-d14	68		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-02
Client ID: MW-C16
Sample Location: ITHACA NY

Date Collected: 03/22/23 12:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 13:30
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	9.3		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.28		ug/l	0.10	0.02	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	~~0.05~~ 0.10U	~~J~~	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	~~0.03~~ 0.10U	~~J~~	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	~~0.01~~ 0.10U	~~J~~	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	0.21		ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.83		ug/l	0.10	0.01	1
Phenanthrene	0.14		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.42		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	113		23-120
2-Fluorobiphenyl	68		15-120
4-Terphenyl-d14	65		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-03
Client ID: MW-C11
Sample Location: ITHACA NY

Date Collected: 03/22/23 14:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 13:47
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.38		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.06	J	ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND	UJ	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND	UJ	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND	UJ	ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	61		15-120
4-Terphenyl-d14	58		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-04
Client ID: MW-C12
Sample Location: ITHACA NY

Date Collected: 03/22/23 15:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 14:36
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	55		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	~~0.02~~ 0.10U	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.58		ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	8.1		ug/l	0.10	0.01	1
Phenanthrene	0.44		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	62		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-05 D
Client ID: MW-23S
Sample Location: ITHACA NY

Date Collected: 03/23/23 09:35
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/30/23 13:54
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	70		ug/l	0.50	0.07	5
2-Chloronaphthalene	ND		ug/l	1.0	0.09	5
Fluoranthene	1.5		ug/l	0.50	0.10	5
Naphthalene	130		ug/l	0.50	0.24	5
Benzo(a)anthracene	0.15	J	ug/l	0.50	0.10	5
Benzo(a)pyrene	ND		ug/l	0.50	0.08	5
Benzo(b)fluoranthene	ND		ug/l	0.50	0.06	5
Benzo(k)fluoranthene	ND		ug/l	0.50	0.04	5
Chrysene	0.06	J	ug/l	0.50	0.06	5
Acenaphthylene	1.5		ug/l	0.50	0.06	5
Anthracene	3.8		ug/l	0.50	0.07	5
Benzo(ghi)perylene	ND		ug/l	0.50	0.07	5
Fluorene	19		ug/l	0.50	0.07	5
Phenanthrene	17		ug/l	0.50	0.12	5
Dibenzo(a,h)anthracene	ND		ug/l	0.50	0.06	5
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.50	0.06	5
Pyrene	2.0		ug/l	0.50	0.10	5
2-Methylnaphthalene	94		ug/l	0.50	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	121	Q	23-120
2-Fluorobiphenyl	79		15-120
4-Terphenyl-d14	90		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-06
Client ID: MW-48S
Sample Location: ITHACA NY

Date Collected: 03/23/23 10:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/29/23 13:26
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	18		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.28		ug/l	0.10	0.02	1
Naphthalene	16		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	0.51		ug/l	0.10	0.01	1
Anthracene	0.60		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	1.4		ug/l	0.10	0.01	1
Phenanthrene	2.0		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.37		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.7		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	66		15-120
4-Terphenyl-d14	74		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-07
Client ID: MW-22S
Sample Location: ITHACA NY

Date Collected: 03/23/23 11:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/29/23 13:43
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	125	Q	23-120
2-Fluorobiphenyl	75		15-120
4-Terphenyl-d14	79		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08
Client ID: MW-46S
Sample Location: ITHACA NY

Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/29/23 13:59
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	50		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	3.6		ug/l	0.10	0.02	1
Naphthalene	~~1200~~ 1400 E		ug/l	0.10	0.05	~~1~~ 25
Benzo(a)anthracene	3.4		ug/l	0.10	0.02	1
Benzo(a)pyrene	3.4		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	2.3		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.92		ug/l	0.10	0.01	1
Chrysene	3.1		ug/l	0.10	0.01	1
Acenaphthylene	4.4		ug/l	0.10	0.01	1
Anthracene	2.8		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.1		ug/l	0.10	0.01	1
Fluorene	13		ug/l	0.10	0.01	1
Phenanthrene	11		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.38		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.1		ug/l	0.10	0.01	1
Pyrene	6.2		ug/l	0.10	0.02	1
2-Methylnaphthalene	~~210~~ 220 E		ug/l	0.10	0.02	~~1~~ 25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	130	Q	23-120
2-Fluorobiphenyl	74		15-120
4-Terphenyl-d14	73		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08 D
Client ID: MW-46S
Sample Location: ITHACA NY

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/30/23 15:42
Analyst: RP

Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	1400		ug/l	2.5	1.2	25
2-Methylnaphthalene	220		ug/l	2.5	0.55	25

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-09
Client ID: DUP
Sample Location: ITHACA NY

Date Collected: 03/22/23 00:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 14:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	63		15-120
4-Terphenyl-d14	68		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-01
Client ID: MW-13S
Sample Location: ITHACA NY

Date Collected: 03/22/23 10:20
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 18:18	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-02
Client ID: MW-C16
Sample Location: ITHACA NY

Date Collected: 03/22/23 12:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.005		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:11	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-03
Client ID: MW-C11
Sample Location: ITHACA NY

Date Collected: 03/22/23 14:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.011		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 18:19	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-04
Client ID: MW-C12
Sample Location: ITHACA NY

Date Collected: 03/22/23 15:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.004	J	mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:17	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-05
Client ID: MW-23S
Sample Location: ITHACA NY

Date Collected: 03/23/23 09:35
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.005		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:18	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-06
Client ID: MW-48S
Sample Location: ITHACA NY

Date Collected: 03/23/23 10:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:19	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-07
Client ID: MW-22S
Sample Location: ITHACA NY

Date Collected: 03/23/23 11:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.370		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:20	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08
Client ID: MW-46S
Sample Location: ITHACA NY

Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 18:21	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-09
Client ID: DUP
Sample Location: ITHACA NY

Date Collected: 03/22/23 00:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/31/23 04:00	03/31/23 11:40	1,9010C/9012B	JER

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/25/23

ALPHA Job #: L2315690

Project Information
Project Name: NYSEG Ithaca Cort Street
Project Location: Ithaca NY
Project #: 2202159
(Use Project name as Project #) ☐
Project Manager: Brace Colombe
ALPHAQuote #:

Client Information
Client: GEI Consultants Inc
Address: 301 Plainsburg Rd, Suite #N
Phone: 607-216-8959
Fax:
Email: bcolombe@geiconsultants.com

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility: ☐ NJ ☒ NY ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ANALYSIS: NYTCL-PAHSIM-LVI | TCN | NYTCL-8260-BTEX

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-PAHSIM-LVI	TCN	NYTCL-8260-BTEX	Sample Specific Comments	Total Bottles
15690-01	MW-13S	3/22/23	10:20	GW	[illegible]	2	1	3		6
02	MW-C16	3/22/23	12:30	GW	[illegible]	2	1	3		6
03	MW-C11	3/22/23	14:00	GW	[illegible]	2	1	3		6
04	MW-C12	3/22/23	15:30	↓	[illegible]	2	1	3		6
05	MW-23S	3/23/23	9:35		[illegible]	2	1	3		6
06	MW-48S	3/23/23	10:25		[illegible]	2	1	3		6
07	MW-22S	3/23/23	11:25		[illegible]	2	1	3		6
08	MW-46S	3/23/23	12:45		[illegible]	2	1	3		6
09	DUP	3/22/23	—		[illegible]	2	1	3		6
03	MW-C11_MS/MW-C11_MSD		14:10/14:20	↓	[illegible]	2	1	3		6

		NYTCL-PAHSIM-LVI	TCN	NYTCL-8260-BTEX
Container Type		A	P	V
Preservative		A	E	B

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/24/23 12:56	[signature] AAL	3/24/23 1256
[signature] Sun Sect	3/24/23 1613	[signature] Sun Sect	3/24/23 1613
[signature] Sun Sect	3/24/23 1613	[signature]	3/25/23 0040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Attachment 3

Laboratory Report

ANALYTICAL REPORT

Lab Number:	L2315690
Client:	GEI Consultants 1301 Trumansburg Road Suite N Ithica, NY 14850
ATTN:	Bruce Coulombe
Phone:	(607) 216-8959
Project Name:	NYSEG ITHACA COURT STREET
Project Number:	2202159
Report Date:	03/31/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2315690-01	MW-13S	WATER	ITHACA NY	03/22/23 10:20	03/24/23
L2315690-02	MW-C16	WATER	ITHACA NY	03/22/23 12:30	03/24/23
L2315690-03	MW-C11	WATER	ITHACA NY	03/22/23 14:00	03/24/23
L2315690-04	MW-C12	WATER	ITHACA NY	03/22/23 15:30	03/24/23
L2315690-05	MW-23S	WATER	ITHACA NY	03/23/23 09:35	03/24/23
L2315690-06	MW-48S	WATER	ITHACA NY	03/23/23 10:25	03/24/23
L2315690-07	MW-22S	WATER	ITHACA NY	03/23/23 11:25	03/24/23
L2315690-08	MW-46S	WATER	ITHACA NY	03/23/23 12:45	03/24/23
L2315690-09	DUP	WATER	ITHACA NY	03/22/23 00:00	03/24/23

Project Name:	NYSEG ITHACA COURT STREET	**Lab Number:**	L2315690
Project Number:	2202159	**Report Date:**	03/31/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	NYSEG ITHACA COURT STREET	**Lab Number:**	L2315690
Project Number:	2202159	**Report Date:**	03/31/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics by SIM

L2315690-05D: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Ashaley Moynihan

Title: Technical Director/Representative Date: 03/31/23

ORGANICS

VOLATILES

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-01
Client ID: MW-13S
Sample Location: ITHACA NY

Date Collected: 03/22/23 10:20
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 09:02
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-02
Client ID: MW-C16
Sample Location: ITHACA NY

Date Collected: 03/22/23 12:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 09:23
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-03
Client ID: MW-C11
Sample Location: ITHACA NY

Date Collected: 03/22/23 14:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 09:44
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-04
Client ID: MW-C12
Sample Location: ITHACA NY

Date Collected: 03/22/23 15:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 10:05
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	3.6		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	2.1	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-05
Client ID: MW-23S
Sample Location: ITHACA NY

Date Collected: 03/23/23 09:35
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 10:26
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	1.4		ug/l	0.50	0.16	1
Toluene	2.3	J	ug/l	2.5	0.70	1
Ethylbenzene	69		ug/l	2.5	0.70	1
p/m-Xylene	10		ug/l	2.5	0.70	1
o-Xylene	36		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-06
Client ID: MW-48S
Sample Location: ITHACA NY

Date Collected: 03/23/23 10:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 10:46
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	35		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	20		ug/l	2.5	0.70	1
p/m-Xylene	1.9	J	ug/l	2.5	0.70	1
o-Xylene	11		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-07
Client ID: MW-22S
Sample Location: ITHACA NY

Date Collected: 03/23/23 11:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 11:07
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08 D
Client ID: MW-46S
Sample Location: ITHACA NY

Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 11:28
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	980		ug/l	5.0	1.6	10
Toluene	24	J	ug/l	25	7.0	10
Ethylbenzene	770		ug/l	25	7.0	10
p/m-Xylene	160		ug/l	25	7.0	10
o-Xylene	230		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-09
Client ID: DUP
Sample Location: ITHACA NY

Date Collected: 03/22/23 00:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/29/23 11:49
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/29/23 08:21
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1760701-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET

Project Number: 2202159

Lab Number: L2315690

Report Date: 03/31/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1760701-3 WG1760701-4								
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	100		105		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		99		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	100		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1760701-6 WG1760701-7 QC Sample: L2315690-03 Client ID: MW-C11												
Benzene	ND	10	11	110		11	110		70-130	0		20
Toluene	ND	10	10	100		10	100		70-130	0		20
Ethylbenzene	ND	10	11	110		11	110		70-130	0		20
p/m-Xylene	ND	20	21	105		21	105		70-130	0		20
o-Xylene	ND	20	21	105		21	105		70-130	0		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		111		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	96		100		70-130
Toluene-d8	99		101		70-130

SEMIVOLATILES

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-01
Client ID: MW-13S
Sample Location: ITHACA NY

Date Collected: 03/22/23 10:20
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 13:14
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	68		15-120
4-Terphenyl-d14	68		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-02
Client ID: MW-C16
Sample Location: ITHACA NY

Date Collected: 03/22/23 12:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 13:30
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	9.3		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.28		ug/l	0.10	0.02	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	0.21		ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.83		ug/l	0.10	0.01	1
Phenanthrene	0.14		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.42		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	113		23-120
2-Fluorobiphenyl	68		15-120
4-Terphenyl-d14	65		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-03
Client ID: MW-C11
Sample Location: ITHACA NY

Date Collected: 03/22/23 14:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 13:47
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.38		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.06	J	ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	61		15-120
4-Terphenyl-d14	58		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-04
Client ID: MW-C12
Sample Location: ITHACA NY

Date Collected: 03/22/23 15:30
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 14:36
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	55		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.58		ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	8.1		ug/l	0.10	0.01	1
Phenanthrene	0.44		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	62		41-149

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-05 D
Client ID: MW-23S
Sample Location: ITHACA NY

Date Collected: 03/23/23 09:35
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/30/23 13:54
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	70		ug/l	0.50	0.07	5
2-Chloronaphthalene	ND		ug/l	1.0	0.09	5
Fluoranthene	1.5		ug/l	0.50	0.10	5
Naphthalene	130		ug/l	0.50	0.24	5
Benzo(a)anthracene	0.15	J	ug/l	0.50	0.10	5
Benzo(a)pyrene	ND		ug/l	0.50	0.08	5
Benzo(b)fluoranthene	ND		ug/l	0.50	0.06	5
Benzo(k)fluoranthene	ND		ug/l	0.50	0.04	5
Chrysene	0.06	J	ug/l	0.50	0.06	5
Acenaphthylene	1.5		ug/l	0.50	0.06	5
Anthracene	3.8		ug/l	0.50	0.07	5
Benzo(ghi)perylene	ND		ug/l	0.50	0.07	5
Fluorene	19		ug/l	0.50	0.07	5
Phenanthrene	17		ug/l	0.50	0.12	5
Dibenzo(a,h)anthracene	ND		ug/l	0.50	0.06	5
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.50	0.06	5
Pyrene	2.0		ug/l	0.50	0.10	5
2-Methylnaphthalene	94		ug/l	0.50	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**121**	Q	23-120
2-Fluorobiphenyl	79		15-120
4-Terphenyl-d14	90		41-149

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-06
Client ID: MW-48S
Sample Location: ITHACA NY

Date Collected: 03/23/23 10:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/29/23 13:26
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	18		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.28		ug/l	0.10	0.02	1
Naphthalene	16		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	0.51		ug/l	0.10	0.01	1
Anthracene	0.60		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	1.4		ug/l	0.10	0.01	1
Phenanthrene	2.0		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.37		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.7		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	66		15-120
4-Terphenyl-d14	74		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-07
Client ID: MW-22S
Sample Location: ITHACA NY

Date Collected: 03/23/23 11:25
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/29/23 13:43
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**125**	Q	23-120
2-Fluorobiphenyl	75		15-120
4-Terphenyl-d14	79		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08
Client ID: MW-46S
Sample Location: ITHACA NY

Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/29/23 13:59
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	50		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	3.6		ug/l	0.10	0.02	1
Naphthalene	1200	E	ug/l	0.10	0.05	1
Benzo(a)anthracene	3.4		ug/l	0.10	0.02	1
Benzo(a)pyrene	3.4		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	2.3		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.92		ug/l	0.10	0.01	1
Chrysene	3.1		ug/l	0.10	0.01	1
Acenaphthylene	4.4		ug/l	0.10	0.01	1
Anthracene	2.8		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.1		ug/l	0.10	0.01	1
Fluorene	13		ug/l	0.10	0.01	1
Phenanthrene	11		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.38		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.1		ug/l	0.10	0.01	1
Pyrene	6.2		ug/l	0.10	0.02	1
2-Methylnaphthalene	210	E	ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**130**	Q	23-120
2-Fluorobiphenyl	74		15-120
4-Terphenyl-d14	73		41-149

Project Name: NYSEG ITHACA COURT STREET
Lab Number: L2315690
Project Number: 2202159
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08 D
Client ID: MW-46S
Sample Location: ITHACA NY

Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/30/23 15:42
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	1400		ug/l	2.5	1.2	25
2-Methylnaphthalene	220		ug/l	2.5	0.55	25

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-09
Client ID: DUP
Sample Location: ITHACA NY

Date Collected: 03/22/23 00:00
Date Received: 03/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 14:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	63		15-120
4-Terphenyl-d14	68		41-149

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/28/23 08:49
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/27/23 15:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-04,09 Batch: WG1759424-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	61		15-120
4-Terphenyl-d14	68		41-149

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/29/23 12:53
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 03/28/23 11:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05-08 Batch: WG1759764-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	62		15-120
4-Terphenyl-d14	77		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04,09 Batch: WG1759424-2 WG1759424-3								
Acenaphthene	56		60		40-140	7		40
2-Chloronaphthalene	54		58		40-140	7		40
Fluoranthene	62		66		40-140	6		40
Naphthalene	53		56		40-140	6		40
Benzo(a)anthracene	65		70		40-140	7		40
Benzo(a)pyrene	66		70		40-140	6		40
Benzo(b)fluoranthene	65		72		40-140	10		40
Benzo(k)fluoranthene	66		67		40-140	2		40
Chrysene	65		68		40-140	5		40
Acenaphthylene	58		64		40-140	10		40
Anthracene	60		66		40-140	10		40
Benzo(ghi)perylene	70		72		40-140	3		40
Fluorene	58		64		40-140	10		40
Phenanthrene	57		63		40-140	10		40
Dibenzo(a,h)anthracene	75		78		40-140	4		40
Indeno(1,2,3-cd)pyrene	78		79		40-140	1		40
Pyrene	62		66		40-140	6		40
2-Methylnaphthalene	52		56		40-140	7		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04,09 Batch: WG1759424-2 WG1759424-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	94		104		23-120
2-Fluorobiphenyl	54		59		15-120
4-Terphenyl-d14	60		61		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05-08 Batch: WG1759764-2 WG1759764-3								
Acenaphthene	76		84		40-140	10		40
2-Chloronaphthalene	71		74		40-140	4		40
Fluoranthene	98		104		40-140	6		40
Naphthalene	66		69		40-140	4		40
Benzo(a)anthracene	102		109		40-140	7		40
Benzo(a)pyrene	105		111		40-140	6		40
Benzo(b)fluoranthene	102		108		40-140	6		40
Benzo(k)fluoranthene	104		107		40-140	3		40
Chrysene	100		105		40-140	5		40
Acenaphthylene	79		84		40-140	6		40
Anthracene	91		98		40-140	7		40
Benzo(ghi)perylene	100		108		40-140	8		40
Fluorene	84		92		40-140	9		40
Phenanthrene	87		95		40-140	9		40
Dibenzo(a,h)anthracene	108		116		40-140	7		40
Indeno(1,2,3-cd)pyrene	113		121		40-140	7		40
Pyrene	100		105		40-140	5		40
2-Methylnaphthalene	68		70		40-140	3		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05-08 Batch: WG1759764-2 WG1759764-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	**121**	Q	**127**	Q	23-120
2-Fluorobiphenyl	68		73		15-120
4-Terphenyl-d14	91		96		41-149

Matrix Spike Analysis
Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Client ID: MW-C11	Associated sample(s): 01-04,09					QC Batch ID: WG1759424-6			WG1759424-7	QC Sample: L2315690-03		
Acenaphthene	0.38	18.2	12	64		10	53		40-140	18		40
2-Chloronaphthalene	ND	18.2	11	61		10	55		40-140	10		40
Fluoranthene	ND	18.2	12	66		11	61		40-140	9		40
Naphthalene	ND	18.2	10	55		9.4	52		40-140	6		40
Benzo(a)anthracene	ND	18.2	13	72		12	66		40-140	8		40
Benzo(a)pyrene	ND	18.2	11	61		9.7	53		40-140	13		40
Benzo(b)fluoranthene	ND	18.2	11	61		9.6	53		40-140	14		40
Benzo(k)fluoranthene	ND	18.2	10	55		9.8	54		40-140	2		40
Chrysene	ND	18.2	13	72		12	66		40-140	8		40
Acenaphthylene	0.06J	18.2	12	66		11	61		40-140	9		40
Anthracene	ND	18.2	12	66		11	61		40-140	9		40
Benzo(ghi)perylene	ND	18.2	4.7	**26**	Q	3.6	**20**	Q	40-140	27		40
Fluorene	ND	18.2	12	66		11	61		40-140	9		40
Phenanthrene	ND	18.2	12	66		11	61		40-140	9		40
Dibenzo(a,h)anthracene	ND	18.2	5.0	**28**	Q	3.9	**21**	Q	40-140	25		40
Indeno(1,2,3-cd)pyrene	ND	18.2	5.4	**30**	Q	4.2	**23**	Q	40-140	25		40
Pyrene	0.02J	18.2	12	66		11	61		40-140	9		40
2-Methylnaphthalene	ND	18.2	10	55		9.6	53		40-140	4		40

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2-Fluorobiphenyl	60		56		15-120
4-Terphenyl-d14	62		58		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET

Project Number: 2202159

Lab Number: L2315690

Report Date: 03/31/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04,09 QC Batch ID: WG1759424-6 WG1759424-7 QC Sample: L2315690-03 Client ID: MW-C11												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Nitrobenzene-d5	107		96		23-120

INORGANICS
&
MISCELLANEOUS

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-01
Client ID: MW-13S
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/22/23 10:20
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 18:18	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-02
Client ID: MW-C16
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/22/23 12:30
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.005		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:11	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-03
Client ID: MW-C11
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/22/23 14:00
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.011		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 18:19	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-04
Client ID: MW-C12
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/22/23 15:30
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.004	J	mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:17	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-05
Client ID: MW-23S
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/23/23 09:35
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.005		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:18	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-06
Client ID: MW-48S
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/23/23 10:25
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:19	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-07
Client ID: MW-22S
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/23/23 11:25
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.370		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 17:20	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-08
Client ID: MW-46S
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/23/23 12:45
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 18:21	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159
Lab Number: L2315690
Report Date: 03/31/23

SAMPLE RESULTS

Lab ID: L2315690-09
Client ID: DUP
Sample Location: ITHACA NY
Sample Depth:
Matrix: Water
Date Collected: 03/22/23 00:00
Date Received: 03/24/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/31/23 04:00	03/31/23 11:40	1,9010C/9012B	JER

Project Name: NYSEG ITHACA COURT STREET **Lab Number:** L2315690

Project Number: 2202159 **Report Date:** 03/31/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1760565-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/30/23 12:20	03/30/23 18:02	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 09 Batch: WG1761060-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/31/23 04:00	03/31/23 11:25	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET

Project Number: 2202159

Lab Number: L2315690

Report Date: 03/31/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1760565-2 WG1760565-3								
Cyanide, Total	91		94		85-115	3		20
General Chemistry - Westborough Lab Associated sample(s): 09 Batch: WG1761060-2 WG1761060-3								
Cyanide, Total	102		103		85-115	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1760565-4 WG1760565-5 QC Sample: L2315690-03 Client ID: MW-C11												
Cyanide, Total	0.011	0.2	0.233	111		0.230	109		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1761060-4 WG1761060-5 QC Sample: L2314437-10 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.212	106		0.213	106		80-120	0		20

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2315690-01A	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-01B	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-01C	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-01D	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-01E	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-01F	Plastic 250ml NaOH preserved	B	>12	>12	2.3	Y	Absent		TCN-9010(14)
L2315690-02A	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-02B	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-02C	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-02D	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-02E	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-02F	Plastic 250ml NaOH preserved	B	>12	>12	2.3	Y	Absent		TCN-9010(14)
L2315690-03A	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03A1	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03A2	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03B	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03B1	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03B2	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03C	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03C1	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03C2	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-03D	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2315690-03D1	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-03D2	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-03E	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-03E1	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-03E2	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-03F	Plastic 250ml NaOH preserved	B	>12	>12	2.3	Y	Absent		TCN-9010(14)
L2315690-03F1	Plastic 250ml NaOH preserved	B	>12	>12	2.3	Y	Absent		TCN-9010(14)
L2315690-03F2	Plastic 250ml NaOH preserved	B	>12	>12	2.3	Y	Absent		TCN-9010(14)
L2315690-04A	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-04B	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-04C	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-04D	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-04E	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-04F	Plastic 250ml NaOH preserved	B	>12	>12	2.3	Y	Absent		TCN-9010(14)
L2315690-05A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-05B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-05C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-05D	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-05E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-05F	Plastic 250ml NaOH preserved	A	>12	>12	2.9	Y	Absent		TCN-9010(14)
L2315690-06A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-06B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-06C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-06D	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-06E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-06F	Plastic 250ml NaOH preserved	A	>12	>12	2.9	Y	Absent		TCN-9010(14)
L2315690-07A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-07B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: NYSEG ITHACA COURT STREET
Project Number: 2202159

Lab Number: L2315690
Report Date: 03/31/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2315690-07C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-07D	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-07E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-07F	Plastic 250ml NaOH preserved	A	>12	>12	2.9	Y	Absent		TCN-9010(14)
L2315690-08A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-08B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-08C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-08D	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-08E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-08F	Plastic 250ml NaOH preserved	A	>12	>12	2.9	Y	Absent		TCN-9010(14)
L2315690-09A	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-09B	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-09C	Vial HCl preserved	B	NA		2.3	Y	Absent		NYTCL-8260-BTEX(14)
L2315690-09D	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-09E	Amber 250ml unpreserved	B	7	7	2.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2315690-09F	Plastic 250ml NaOH preserved	B	>12	>12	2.3	Y	Absent		TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name:	NYSEG ITHACA COURT STREET	**Lab Number:**	L2315690
Project Number:	2202159	**Report Date:**	03/31/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	NYSEG ITHACA COURT STREET	**Lab Number:**	L2315690
Project Number:	2202159	**Report Date:**	03/31/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	NYSEG ITHACA COURT STREET	**Lab Number:**	L2315690
Project Number:	2202159	**Report Date:**	03/31/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 3/25/23

ALPHA Job # L2315690

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: NYSEG Ithaca Cort Street
Project Location: Ithaca NY
Project # 2202159
(Use Project name as Project #) ☐
Project Manager: Bree Coulombe
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Client Information

Client: GEI Consultants Inc
Address: 1301 Trumansburg Rd. Suite #N
Phone: 607-216-8959
Fax:
Email: bcoulombe@geiconsultants.com

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS: NYTCL-OASIS-8270-LIN | TCN | NYTCL-8260-BTEX

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-OASIS-8270-LIN	TCN	NYTCL-8260-BTEX	Sample Specific Comments	Total Bottles
15690-01	MW-13S	3/22/23	10:20	GW	SD	2	1	3		6
02	MW-C16	3/22/23	12:30	GW	SD	2	1	3		6
03	MW-C11	3/22/23	14:00	GW	SD	2	1	3		6
04	MW-C12	3/22/23	15:30	↓	SD	2	1	3		6
05	MW-23S	3/23/23	9:35		SD	2	1	3		6
06	MW-48S	3/23/23	10:25		SD	2	1	3		6
07	MW-22S	3/23/23	11:25		SD	2	1	3		6
08	MW-46S	3/23/23	12:45		SD	2	1	3		6
09	DUP	3/22/23	—		SD	2	1	3		6
03	MW-C11_MS/MW-C11_MSD		14:10/14:20	↓	SD	2	1	3		6

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	NYTCL-OASIS-8270-LIN	TCN	NYTCL-8260-BTEX
Container Type	A	P	V
Preservative	A	E	B

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/24/23/12:56	[signature] AAL	3/24/23 1256
[signature] Sun Sect	3/24/23 1613	[signature] Sun Sect	3/24/23 1613
[signature] Sun Sect	3/24/23 1613	[signature]	3/25/23 0040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)