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Date: April 24, 2023
Our Ref: 30174322
Subject: **First Quarter 2023 Groundwater Monitoring Report**
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York
NYSDEC Site No. 862009

Dear Mr. Pratt,

On behalf of New York State Electric & Gas Corporation (NYSEG), this letter summarizes activities completed during the first quarter of 2023 (Q1) for the NYSEG Penn Yan former manufactured gas plant (MGP) site (New York State Department of Environmental Conservation [NYSDEC] Site No. 862009), located in the Village of Penn Yan, Town of Milo, Yates County, New York (Figure 1).

Arcadis of New York, Inc. (Arcadis) conducted the Q1 monitoring on February 8-9, 2023 in accordance with the NYSDEC-approved December 2020 Interim Site Management Plan (ISMP)[1] prepared by AECOM. Since completing the Q1 monitoring event, the NYSDEC approved AECOM's January 2023 Site Management Plan (SMP)[2] in a letter dated March 31, 2023. Future monitoring events will be completed in accordance with the NYSDEC-approved January 2023 SMP.

This quarterly report summarizes activities conducted from January 1, 2023, to March 31, 2023, and includes data from the February 8-9, 2023 monitoring event.

Relevant background information is presented in the following section, followed by a Q1 monitoring and operation and maintenance activity summary.

Background

The former MGP site is approximately 0.815 acres and comprises a vacant masonry building, 2 feet of grass-covered soil (meeting restricted-residential use soil cleanup objectives [6 New York Codes, Rules, and Regulations Part 375-6.7(d)])[1], an asphalt driveway and parking area, and a section of riparian land along the Keuka Lake Outlet. The offsite project area consists of an approximate 1.7-acre portion of submerged sediments beneath the Keuka Lake Outlet (Class C waterway) comprising a 6-inch-thick geoweb infilled with 1 inch of

[1] AECOM. 2020. *Interim Site Management Plan*, Penn Yan Former Manufactured Gas Plant Site, Yates County, Penn Yan, New York. December.
[2] AECOM. 2023. *Site Management Plan*, Penn Yan Former Manufactured Gas Plant Site, Yates County, Penn Yan, New York. January.

AquaGate® overlain by 5 inches of Aquablok® and a minimum of 1 foot of clean soil[1] adjacent to and downstream of the site.

The site was initially developed as a malt house and wood storage facility, operating from the 1840s to the late 1890s. The MGP was constructed in 1899 and operated until 1931. During this period, gas was manufactured with a coal gasification process using coal, coke, and water. Operating companies included the Penn Yan Gas Light Company (1899-1926) and the New York State Central Electric Corporation (1927-1931). Following production, gas was distributed to customers through buried mains and used primarily for illumination. Several by-products from the MGP process, including coal tar, ash, and purifier waste, were stored onsite and either sold or disposed offsite.

The primary constituents of concern at the site are benzene, toluene, ethylbenzene, and xylenes (BTEX); polycyclic aromatic hydrocarbons (PAHs); and cyanide. Since the mid-1980s, the site has undergone several remedial investigations and interim remedial measures and actions to address the presence of impacted soils and former MGP structures. Historical site investigations and remedial actions are summarized in the ISMP.[1]

First Quarter 2023 Monitoring and Sampling

As presented in the ISMP[1], groundwater remedy objectives for the Q1 monitoring period are to:

- assess site groundwater movement patterns; and
- collect/analyze site groundwater samples quarterly to document dissolved BTEX, PAHs, and total cyanide concentrations.

To document achieving the objectives, this report presents:

- Site-wide data collected during the monitoring period, including groundwater analytical data and groundwater elevation data; and
- Conclusions and monitoring modification recommendations, as appropriate.

Groundwater Gauging Activities and Results

During the Q1 monitoring event, field personnel measured depth to groundwater, depth to non-aqueous phase liquid, and depth to bottom from surveyed measuring points at the following monitoring wells screened in the shallow (i.e., water table) and deep groundwater-bearing units (shown on Figure 2):

- Shallow groundwater-bearing unit: PRMW-1S, PRMW-2S, PRMW-3S, PRWM-4S, PRMW-5S, and PRMW-6S; and
- Deep groundwater-bearing unit: PRMW-2D, PRMW-3D, PRMW-5D, PRMW-6D, TMW-1D, TMW-2D, and TMW-2DR.

Monitoring well TMW-2D was obstructed during the Q1 monitoring event; therefore, the depth to groundwater was unable to be measured and a groundwater sample was unable to be collected. Gauging results, including calculated groundwater elevations and sediment thickness during this reporting period and previous monitoring events, are summarized in Table 1.

Groundwater Elevation and Flow

The Q1 gauging event shallow water table and deep potentiometric contour maps are presented on Figures 3 and 4, respectively. As shown on the figures, the shallow and deep groundwater flow directions were generally to the

southeast, toward the Keuka Lake Outlet. When compared to previous monitoring periods, no significant changes to site-wide groundwater flow direction are observed in the shallow water table and deep potentiometric surface.

Non-Aqueous Phase Liquid Monitoring

Non-aqueous phase liquid was not observed in the monitoring wells gauged during the reporting period.

Well Depth Monitoring

Calculated sediment thickness in each well is summarized in Table 1. Less than 0.5 feet of accumulated sediment was measured in all monitoring wells gauged during the reporting period, except for PRMW-2D (0.74 feet), PRMW-5D (1.68 feet), and TMW-2DR (1.10 feet).

Groundwater Sampling Activities and Results

Arcadis conducted the Q1 groundwater sampling event on February 8-9, 2023. Groundwater sampling activities and associated analytical results are summarized below.

Groundwater Sampling Activities

Arcadis field personnel collected groundwater samples from 12 monitoring wells (PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRWM-4S, PRMW-5S, PRMW-5D, PRMW-6S, PRMW-6D, TMW-1D, and TMW-2DR) using low-flow groundwater purging and sampling techniques. Groundwater samples and appropriate quality assurance/quality control samples, to facilitate data validation, were submitted to Eurofins Laboratories, located in Amherst, New York, for the following analysis:

- BTEX using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C;
- PAHs using USEPA SW-846 Method 8270D; and
- Total cyanide using USEPA SW-846 Method 9012B.

Groundwater sampling logs are provided as Attachment 1.

Groundwater Quality

Arcadis validated the laboratory analytical data and prepared a Data Usability Summary Report (DUSR). The data review indicated that overall laboratory performance was acceptable, and the overall data quality was within the guidelines specified in the respective methods. Instances where laboratory performance was not acceptable (if any) are detailed in the DUSR, and the data has been appropriately qualified. Laboratory reports are included as Attachment 2, and the DUSR is included as Attachment 3.

The analytical results presented in Table 2 are compared to the NYSDEC's Division of Water Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Class GA (Class GA) groundwater quality standards/guidance values. Table 2 also includes analytical results for groundwater samples collected during previous groundwater sampling events (conducted by Arcadis and AECOM).

Shallow Groundwater-Bearing Unit

BTEX, PAH, and total cyanide analytical results for groundwater samples collected from the shallow monitoring wells (PRMW-1S, PRMW-2S, PRMW-3S, PRMW-4S, PRMW-5S, and PRMW-6S) during the reporting period are summarized below.

- BTEX:
  - Benzene (7.6 micrograms per liter [µg/L]) was detected in the groundwater sample collected from monitoring well PRMW-5S at a concentration exceeding the Class GA groundwater quality standard.
  - Ethylbenzene (2.0 µg/L) and total xylenes (1.3 µg/L) were detected in the groundwater sample collected from monitoring well PRMW-5S at concentrations less than the Class GA groundwater quality standards.
  - BTEX was not detected in groundwater samples collected from the remaining shallow monitoring wells.
  - BTEX detections and concentration trends in the shallow monitoring wells are consistent with historical results. BTEX concentrations remained stable in monitoring well PRMW-5S when compared to the results from the fourth quarter of 2022 (Q4) monitoring event (i.e., 9.9 ug/L and 10.9 ug/L, respectively).
- PAHs:
  - Naphthalene (13 µg/L) was detected in the groundwater sample collected from monitoring well PRMW-5S at a concentration exceeding the Class GA groundwater quality standard or guidance value.
  - Acenaphthene (16 µg/L), acenaphthylene (2.6 µg/L), fluoranthene (1.3 µg/L), fluorene (6.3 µg/L), phenanthrene (2.4 µg/L), and pyrene (0.95 µg/L) were detected in the groundwater sample collected from monitoring well PRMW-5S at concentrations less than their respective Class GA groundwater quality standards or guidance values.
  - PAHs were not detected in groundwater samples collected from the remaining shallow monitoring wells.
  - PAH detections and concentration trends in shallow monitoring wells are consistent with historical results. PAH concentrations in monitoring well PRWM-5S increased when compared to the results from the Q4 monitoring event (i.e., 31.9 ug/L and 42.6 ug/L, respectively); however, the Q1 result is less than historical concentrations and indicates an overall decreasing concentration trend.
- Total Cyanide:
  - Total cyanide was detected in the groundwater sample collected from shallow monitoring well PRMW-2S (0.078 µg/L) at a concentration less than the Class GA groundwater quality standards.
  - Total cyanide concentrations in shallow monitoring wells are consistent with historical results.

Deep Groundwater-Bearing Unit

BTEX, PAHs, and total cyanide groundwater analytical results for samples collected from the deep monitoring wells (PRMW-2D, PRMW-3D, PRMW-5D, PRMW-6D, and TMW-1D) during the reporting period are summarized below.

- BTEX:
  - BTEX was not detected in groundwater samples collected from the deep monitoring wells.
- PAHs:
  - PAHs were not detected in groundwater samples collected from the deep monitoring wells.
- Total cyanide:
  - Total cyanide was not detected in groundwater samples collected from the deep monitoring wells.

Waste Management

Arcadis containerized and staged investigation-derived waste generated during the groundwater sampling activities in appropriately labeled, New York State Department of Transportation-approved, 55-gallon drums. Drums of investigation-derived waste were subsequently transported offsite for treatment/disposal by NYSEG's waste disposal vendor.

Conclusions

The Q1 monitoring results are generally consistent with historical groundwater results. Based on the Q1 monitoring results:

- The groundwater flow direction in the shallow and deep groundwater-bearing units is generally consistent with historical conditions.
- BTEX concentrations in the groundwater sample collected from monitoring well PRMW-5S remained stable when compared to the Q4 results. When compared to historical results, both BTEX and PAH concentrations in the shallow and deep groundwater-bearing units indicate a decreasing trend.
- Total cyanide concentrations in the shallow and deep groundwater-bearing units are consistent with historical results.

Quarterly monitoring and reporting will continue to be completed as required by the January 2023 Site Management Plan.[2] The next groundwater sampling event is scheduled for May 2023. Groundwater samples will continue to be analyzed for BTEX, PAHs, and total cyanide as required by the Site Management Plan.

Recommendations

Based on data from this monitoring period, the following are recommended:

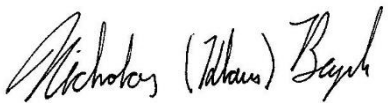
- Remove sediment from monitoring wells PRMW-2D, PRMW-5D, and TMW-2DR using a pump or weighted bailer.
- Abandon monitoring wells TMW-1D,TMW-2D, and TMW-2DR in accordance with NYSDEC CP-43[3] by grouting in place. Monitoring wells TMW-1D and TMW-2D were originally installed as pairs, with associated shallow wells (i.e., TMW-1S and TMW2S, respectively), during site remedial activities to monitor artesian conditions within the deep groundwater-bearing unit.[4] AECOM decommissioned monitoring wells TMW-1S and TMW-2S,[4] and Arcadis installed monitoring well TMW-2DR in April 2022 to replace monitoring well TMW-2D, which was reported by AECOM as being blocked during the second quarter 2021 groundwater monitoring event[5]. Arcadis recommends decommissioning monitoring wells TMW-1D, TMW-2D, and TMW-2DR, considering artesian conditions in the deep-water bearing unit no longer need to be monitored, and there is a deep well network to monitor groundwater quality at the site.

[3] NYSDEC. 2009. *CP43: Groundwater Monitoring Well Decommissioning Policy.* November 3.
[4] AECOM. 2021. *Draft Groundwater Well Installation and Monitoring Report*, Water Street Former Manufactured Gas Plant Site, Penn Yan, New York, NYSDEC Site: 862009. July 20.
[5] AECOM. 2021. *Draft Groundwater Monitoring Event Report – 2021 Q2,* Penn Yan Water Street Former MGP Site, Penn Yan, New York, NYSDEC Site: 8-62-009. September 17.

Mr. Gerald Pratt, PG
New York State Department of Environmental Conservation
April 24, 2023

Please contact John Ruspantini of NYSEG at 607.725.3801 or jjruspantini@nyseg.com with any questions or comments.

Sincerely,
Arcadis of New York, Inc.



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CC. John Ruspantini, CHMM, NYSEG
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Enclosures:

- Table 1 – Gauging Data
- Table 2 – Groundwater Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3 – Shallow Groundwater Contour Map, February 8, 2023
- Figure 4 – Deep Groundwater Contour Map, February 8, 2023
- Attachment 1 – Groundwater Sampling Logs
- Attachment 2 – Groundwater Laboratory Reports
- Attachment 3 – Data Usability Summary Report

Tables

Table 1
Gauging Data

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Interval	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Sediment Thickness (feet)
PRMW-1S	731.11	29.90	20 - 30	February 22, 2021	15.40	715.71	-	29.90	0.00
				May 24, 2021	11.23	719.88	-	29.75	0.15
				August 23, 2021	6.52	724.59	-	29.68	0.22
				November 29, 2021	10.10	721.01	-	29.63	0.27
				February 24, 2022	10.20	720.91	-	29.69	0.21
				May 31, 2022	10.86	720.25	-	29.67	0.23
				August 3, 2022	10.84	720.27	-	29.61	0.29
				November 22, 2022	10.43	720.68	-	29.70	0.20
				February 8, 2023	10.78	720.33	-	29.68	0.22
PRMW-2S	734.55	23.09	10 - 20	February 22, 2021	16.10	718.45	-	23.09	0.00
				May 24, 2021	15.63	718.92	-	23.07	0.02
				August 23, 2021	14.19	720.36	-	23.02	0.07
				November 29, 2021	12.13	722.42	-	23.00	0.09
				February 24, 2022	14.87	719.68	-	22.98	0.11
				May 31, 2022	15.71	718.84	-	22.98	0.11
				August 3, 2022	16.26	718.29	-	22.94	0.15
				November 22, 2022	15.76	718.79	-	23.05	0.04
				February 8, 2023	15.40	719.15	-	22.99	0.10
PRMW-2D	734.64	38.55	25 - 35	February 22, 2021	16.47	718.17	-	38.55	0.00
				May 24, 2021	15.84	718.80	-	37.92	0.63
				August 23, 2021	14.59	720.05	-	37.73	0.82
				November 29, 2021	15.14	719.50	-	37.76	0.79
				February 24, 2022	15.08	719.56	-	37.86	0.69
				May 31, 2022	15.68	718.96	-	37.82	0.73
				August 3, 2022	15.89	718.75	-	37.78	0.77
				November 22, 2022	15.82	718.82	-	38.09	0.46
				February 8, 2023	15.60	719.04	-	37.81	0.74
PRMW-3S	723.73	22.90	10 - 20	February 22, 2021	7.72	716.01	-	22.90	0.00
				May 24, 2021	7.42	716.31	-	22.98	-0.08
				August 23, 2021	6.31	717.42	-	22.68	0.22
				November 29, 2021	6.90	716.83	-	22.79	0.11
				February 24, 2022	6.88	716.85	-	22.85	0.05
				May 31, 2022	7.18	716.55	-	22.80	0.10
				August 3, 2022	7.25	716.48	-	22.76	0.14
				November 22, 2022	7.42	716.31	-	22.80	0.10
				February 8, 2023	7.26	716.47	-	22.82	0.08
PRMW-3D	723.81	36.25	25 - 35	February 22, 2021	6.80	717.01	-	36.25	0.00
				May 24, 2021	5.64	718.17	-	36.01	0.24
				August 23, 2021	4.89	718.92	-	35.84	0.41
				November 29, 2021	4.94	718.87	-	35.88	0.37
				February 24, 2022	4.93	718.88	-	35.90	0.35
				May 31, 2022	5.04	718.77	-	35.85	0.40
				August 3, 2022	5.85	717.96	-	35.78	0.47
				November 22, 2022	6.42	717.39	-	35.85	0.40
				February 8, 2023	6.04	717.77	-	35.81	0.44
PRMW-4S	721.92	27.30	14 - 24	February 22, 2021	7.52	714.40	-	27.30	0.00
				May 24, 2021	7.26	714.66	-	27.20	0.10
				August 23, 2021	6.00	715.92	-	27.04	0.26
				November 29, 2021	6.89	715.03	-	27.06	0.24
				February 24, 2022	6.26	715.66	-	27.10	0.20
				May 31, 2022	7.16	714.76	-	27.09	0.21
				August 3, 2022	7.20	714.72	-	27.05	0.25
				November 22, 2022	7.40	714.52	-	27.12	0.18
				February 8, 2023	7.10	714.82	-	27.10	0.20

See Notes on Page 3.

Table 1
Gauging Data

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Interval	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Sediment Thickness (feet)
PRMW-5S	720.72	22.70	10 - 20	February 22, 2021	7.10	713.62	-	22.70	0.00
				May 24, 2021	6.66	714.06	-	22.67	0.03
				August 23, 2021	6.17	714.55	-	22.54	0.16
				November 29, 2021	6.88	713.84	-	22.60	0.10
				February 24, 2022	6.48	714.24	-	22.61	0.09
				May 31, 2022	6.45	714.27	-	22.59	0.11
				August 3, 2022	6.84	713.88	-	22.54	0.16
				November 22, 2022	7.17	713.55	-	22.60	0.10
				February 8, 2023	7.34	713.38	-	22.59	0.11
PRMW-5D	720.74	33.27	20 - 30	February 22, 2021	4.32	716.42	-	33.27	0.00
				May 24, 2021	3.24	717.50	-	32.45	0.82
				August 23, 2021	2.62	718.12	-	32.23	1.04
				November 29, 2021	2.63	718.11	-	32.00	1.27
				February 24, 2022	3.30	717.44	-	32.54	0.73
				May 31, 2022	2.80	717.94	-	31.71	1.56
				August 3, 2022	3.58	717.16	-	31.59	1.68
				November 22, 2022	4.00	716.74	-	31.55	1.72
				February 8, 2023	3.63	717.11	-	31.59	1.68
PRMW-6S	721.10	23.20	10 - 20	February 22, 2021	6.52	714.58	-	23.20	0.00
				May 24, 2021	6.28	714.82	-	23.10	0.10
				August 23, 2021	6.05	715.05	-	23.02	0.18
				November 29, 2021	6.04	715.06	-	23.08	0.12
				February 24, 2022	6.13	714.97	-	23.08	0.12
				May 31, 2022	6.09	715.01	-	23.05	0.15
				August 3, 2022	6.08	715.02	-	23.00	0.20
				November 22, 2022	8.75	712.35	-	23.04	0.16
				February 8, 2023	6.16	714.94	-	23.05	0.15
PRMW-6D	721.22	37.05	24 - 34	February 22, 2021	4.85	716.37	-	37.05	0.00
				May 24, 2021	3.75	717.47	-	37.05	0.00
				August 23, 2021	2.99	718.23	-	36.87	0.18
				November 29, 2021	3.06	718.16	-	36.90	0.15
				February 24, 2022	3.97	717.25	-	36.94	0.11
				May 31, 2022	3.17	718.05	-	36.89	0.16
				August 3, 2022	3.82	717.40	-	36.84	0.21
				November 22, 2022	4.39	716.83	-	36.90	0.15
				February 8, 2023	4.10	717.12	-	36.90	0.15
TMW-1D	723.45	-	54 - 64	May 24, 2021	5.17	718.28	-	63.38	-
				August 23, 2021	3.07	720.38	-	63.14	-
				November 29, 2021	4.40	719.05	-	63.25	-
				February 24, 2022	4.43	719.02	-	63.37	-
				May 31, 2022	4.76	718.69	-	63.42	-
				August 3, 2022	5.45	718.00	-	63.25	-
				November 22, 2022	5.86	717.59	-	63.60	-
				February 8, 2023	5.58	717.87	-	63.28	-
TMW-2D	719.24	-	50 - 60	February 22, 2021	2.03	717.21	-	-	-
				May 24, 2021	0.79	718.45	-	-	-
				August 23, 2021	0.40	718.84	-	-	-
				November 29, 2021	0.09	719.15	-	-	-
				February 24, 2022	0.15	719.09	-	-	-
				May 31, 2022	0.15	719.09	-	-	-
				August 3, 2022	1.07	718.17	-	-	-
				November 22, 2022	-	-	-	-	-
				February 8, 2023	1.32	717.92	-	-	-

See Notes on Page 3.

Table 1
Gauging Data

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New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Interval	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Sediment Thickness (feet)
TMW-2DR	719.23	60.18	50 - 60	August 3, 2022	1.17	718.06	-	59.20	0.98
				November 22, 2022	1.57	717.66	-	59.50	0.68
				February 8, 2023	1.35	717.88	-	59.08	1.10

Notes:
1. All measurements from Top of Casing (TOC).
2. "-" Indicates measurement not taken or not available.
3. Elevations in feet above mean sea level, 1929 National Geodetic Vertical Datum.
4. Depth calculated based on well installation information provided by Arcadis (TMW-2DR) and AECOM (all other wells).

Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-1S								PRMW-2D			
Date Collected:			05/26/21	08/23/21	11/29/21	02/25/22	06/01/22	08/04/22	11/22/22	02/08/23	05/25/21	08/25/21	11/30/21	02/25/22
BTEX														
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 U
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	5.2 U	5.0 U	5.0 U	0.31 U
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	5.2 U	5.0 U	5.0 U	0.31 UJ
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	0.17 U	0.17 U	5.2 U	5.0 U	5.0 U	0.19 UJ
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	5.2 U	5.0 U	5.0 U	0.31 UJ
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 UJ
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	5.2 U	5.0 U	5.0 U	0.31 UJ
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 UJ
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 UJ
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 UJ
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U	0.95 U	0.95 U	5.2 U	5.0 U	5.0 U	1.0 U
Phenanthrene	50	ug/L	5.2 U	5.0 UJB	5.0 U	0.20 U	0.19 U	5.0 U	0.19 U	0.19 U	5.2 U	5.0 U	5.0 U	0.21 U
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	5.2 U	5.0 U	5.0 U	0.52 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U

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Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-2D (cont.)				PRMW-2S							
Date Collected:			06/01/22	08/04/22	11/22/22	02/08/23	05/25/21	08/24/21	11/30/21	02/25/22	06/01/22	08/04/22	11/22/22	02/08/23
BTEX														
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Acenaphthylene	- -	ug/L	0.30 U	5.0 U	0.31 U	0.32 U	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U
Anthracene	50	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Benzo(a)anthracene	0.002	ug/L	0.30 U	5.0 U	0.31 U	0.32 U	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U
Benzo(a)pyrene	- -	ug/L	0.18 U	5.0 U	0.19 U	0.19 U	5.2 U	5.0 U	5.0 U	0.18 U	0.18 U	5.0 U	0.18 U	0.17 U
Benzo(b)fluoranthene	0.002	ug/L	0.30 U	5.0 U	0.31 U	0.32 U	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U
Benzo(g,h,i)perylene	- -	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Benzo(k)fluoranthene	0.002	ug/L	0.30 U	5.0 U	0.31 U	0.32 U	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U
Chrysene	0.002	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Dibenzo(a,h)anthracene	- -	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Fluoranthene	50	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Fluorene	50	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Naphthalene	10	ug/L	1.0 U	5.0 U	0.098 J	1.1 U	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	0.98 U	0.95 U
Phenanthrene	50	ug/L	0.20 U	5.0 U	0.21 U	0.21 U	5.2 U	5.0 U	5.0 U	0.20 U	0.20 U	5.0 U	0.20 U	0.19 U
Pyrene	50	ug/L	0.50 U	5.0 U	0.52 U	0.53 U	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U
Total PAHs	- -	ug/L	ND	ND	0.098 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.010 UB	0.010 UB	0.0100 U	0.010 U	**0.015 J**	**0.064**	**0.09**	**0.077**	**0.078 J**	0.010 U	0.0690 UB	**0.078**

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Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-3D								PRMW-3S			
Date Collected:			05/24/21	08/24/21	11/30/21	02/25/22	06/01/22	08/04/22	11/21/22	02/08/23	05/24/21	08/24/21	11/30/21	02/25/22
BTEX														
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.19 U	0.17 U	5.0 U	0.18 U	0.18 U	5.2 U	5.0 U	5.0 U	0.18 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U	0.99 U	1.0 U	5.2 U	5.0 U	5.0 U	1.0 U
Phenanthrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.21 U	0.19 U	5.0 U	0.20 U	0.20 U	5.2 U	5.0 U	5.0 U	0.20 U
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	5.2 U	5.0 U	5.0 U	0.51 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	**0.011**	0.01 U	**0.27**	0.010 U

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Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or		PRMW-3S (cont.)				PRMW-4S							
Date Collected:	Guidance Values	Units	05/31/22	08/04/22	11/21/22	02/08/23	05/25/21	08/23/21	11/29/21	02/25/22	05/31/22	08/04/22	11/22/22	02/09/23
BTEX														
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	0.49 U	5.0 U	0.49 U	0.49 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Acenaphthylene	- -	ug/L	0.29 U	5.0 U	0.29 U	0.29 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U
Anthracene	50	ug/L	0.49 U	5.0 U	0.49 U	0.49 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Benzo(a)anthracene	0.002	ug/L	0.29 UJ	5.0 U	0.29 UJ	0.29 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U
Benzo(a)pyrene	- -	ug/L	0.17 UJ	5.0 U	0.18 UJ	0.18 U	5.2 U	5.0 U	5.0 U	3.7 U	0.17 U	5.0 U	0.17 U	0.18 U
Benzo(b)fluoranthene	0.002	ug/L	0.29 UJ	5.0 U	0.29 UJ	0.29 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U
Benzo(g,h,i)perylene	- -	ug/L	0.49 UJ	5.0 U	0.49 U	0.49 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Benzo(k)fluoranthene	0.002	ug/L	0.29 UJ	5.0 U	0.29 U	0.29 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U
Chrysene	0.002	ug/L	0.49 UJ	5.0 U	0.49 UJ	0.49 UJ	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Dibenzo(a,h)anthracene	- -	ug/L	0.49 UJ	5.0 U	0.49 U	0.49 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Fluoranthene	50	ug/L	0.49 U	5.0 U	0.49 U	0.49 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Fluorene	50	ug/L	0.49 U	5.0 U	0.49 U	0.49 UJ	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	0.49 UJ	5.0 U	0.49 U	0.49 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Naphthalene	10	ug/L	0.97 U	5.0 U	0.98 U	0.98 U	5.2 U	5.0 U	5.0 U	20 U	0.95.0 U	5.0 U	0.95 U	1.0 U
Phenanthrene	50	ug/L	0.19 U	5.0 U	0.20 U	0.20 U	5.2 U	5.0 U	5.0 U	4.1 U	0.19 U	5.0 U	0.19 U	0.20 U
Pyrene	50	ug/L	0.49 U	5.0 U	0.49 U	0.49 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.010 U	0.010 UBJ	0.0100 U	0.010 U	0.01 U	**0.0072 J**	0.01 U	0.010 U	**0.0056 J**	0.011 UB	0.0100 U	0.010 U

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Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-5D								PRMW-5S			
Date Collected:			05/24/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22	11/21/22	02/09/23	05/25/21	08/25/21	11/30/21	02/25/22
BTEX														
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**23**	**21**	**27**	**14**
Ethylbenzene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.4 J**	**3**	**5.9**	**3.3**
Toluene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.75 J**	**0.9 J**	**1.6**	**0.65 J**
Xylenes (total)	5	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**4.9 J**	**3.3**	**6.6**	**2.9**
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	**31 J**	**28 J**	**41**	**21 J**
PAHs														
Acenaphthene	20	ug/L	5.2 U	5.0 U	5.0 U	**0.055 J**	**0.048 J**	5.0 U	0.039 J	0.50 U	**22**	**39**	**15**	**26 D**
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	**4.4 J**	**7.6**	**3.4 J**	**5.2**
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	**1.5 J**	**1.6 J**	**0.52 J**	**0.73**
Benzo(a)anthracene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	5.2 U	**0.39 J**	5.0 U	0.32 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.18 U	0.18 U	5.0 U	0.17 U	0.18 U	5.2 U	5.0 U	5.0 U	0.19 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	5.2 U	5.0 U	5.0 U	0.32 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.53 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	5.2 U	5.0 U	5.0 U	0.32 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	**0.084 J**
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.53 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	**3 J**	**5.5**	**2.1 J**	**2.5**
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	**7**	**12**	**5.5**	**10**
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.53 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	0.95 U	1.0 U	**44**	**45**	**44**	**26 D**
Phenanthrene	50	ug/L	5.2 U	5.0 U	5.0 U	**0.066 J**	0.20 U	5.0 U	0.19 U	0.20 U	**8.2**	**21 B**	**5.7**	**9.8**
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	**2 J**	**3.4 J**	**1.3 J**	**1.5**
Total PAHs	- -	ug/L	ND	ND	ND	**0.12 J**	**0.048 J**	ND	0.039 J	ND	**92 J**	**140 J**	**78 J**	**82 J**
Inorganics														
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	**0.016**	**0.11**	0.01 U	**0.076**

See Notes on Page 8.

Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or		PRMW-5S (cont.)				PRMW-6D							
Date Collected:	Guidance Values	Units	05/31/22	08/03/22	11/21/22	02/09/23	05/25/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22	11/21/22	02/09/23
BTEX														
Benzene	1	ug/L	**16**	**12**	**6.1**	**7.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	**5.7**	**4.5**	**2.4**	**2.0**	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	**0.95 J**	**0.69 J**	**1.0 U**	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	**4.1**	**2.2**	**1.4 J**	**1.3**	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	**27 J**	**19 J**	**9.9 J**	**10.9 J**	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	**18 D**	**14 J**	**11**	**16**	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Acenaphthylene	- -	ug/L	**3.5**	**2.7 J**	**1.9**	**2.6**	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U
Anthracene	50	ug/L	**0.32 J**	25.0 U	2.4 U	2.5 U	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Benzo(a)anthracene	0.002	ug/L	**0.055 J**	25.0 U	1.4 U	1.5 U	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U
Benzo(a)pyrene	- -	ug/L	0.18 U	25.0 U	0.86 U	0.90 U	5.2 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	0.17 U	0.18 U
Benzo(b)fluoranthene	0.002	ug/L	0.31 U	25.0 U	1.4 U	1.5 U	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U
Benzo(g,h,i)perylene	- -	ug/L	0.51 U	25.0 U	2.4 U	2.5 U	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Benzo(k)fluoranthene	0.002	ug/L	0.31 U	25.0 U	1.4 U	1.5 U	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U
Chrysene	0.002	ug/L	0.51 U	25.0 U	2.4 U	2.5 U	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Dibenzo(a,h)anthracene	- -	ug/L	0.51 U	25.0 U	2.4 U	2.5 U	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Fluoranthene	50	ug/L	**1.5**	25.0 U	1.3 J	**1.3**	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Fluorene	50	ug/L	**5.6**	**4.9 J**	**3.5**	**6.3**	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	0.51 U	25.0 U	2.4 U	2.5 U	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Naphthalene	10	ug/L	**29 D**	**6.4 J**	**12**	**13**	5.2 U	5.0 U	5.0 U	1.0 U	0.95.0 U	5.0 U	0.95 U	0.98 U
Phenanthrene	50	ug/L	**3.8**	**2.8 J**	**1.4**	**2.4**	5.2 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U	0.19 U	0.20 U
Pyrene	50	ug/L	**0.85**	25.0 U	0.83 J	**0.95**	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U
Total PAHs	- -	ug/L	**63 J**	**31 J**	**31.9 J**	**42.6 J**	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	**0.047 J**	**0.045**	0.0110 UB	0.041 UB	0.01 U	0.01 U	0.01 U	0.010 U	**0.0060 J**	0.010 UB	0.0100 U	0.010 U

See Notes on Page 8.

Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-6S								TMW-1D			
Date Collected:			05/25/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22	11/21/22	02/09/23	05/26/21	08/25/21	11/30/21	02/25/22
BTEX														
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Acenaphthylene	- -	ug/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Anthracene	50	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Benzo(a)anthracene	0.002	ug/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Benzo(a)pyrene	- -	ug/L	5.4 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	0.17 U	0.18 U	5.2 U	5.0 U	5.0 U	0.19 U
Benzo(b)fluoranthene	0.002	ug/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Benzo(g,h,i)perylene	- -	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Benzo(k)fluoranthene	0.002	ug/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	5.2 U	5.0 U	5.0 U	0.31 U
Chrysene	0.002	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Dibenzo(a,h)anthracene	- -	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Fluoranthene	50	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Fluorene	50	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Naphthalene	10	ug/L	5.4 U	5.0 U	5.0 U	1.0 U	0.96 U	5.0 U	0.95 U	1.0 U	5.2 U	5.0 U	5.0 U	1.0 U
Phenanthrene	50	ug/L	5.4 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U	0.19 U	0.20 U	5.2 U	5.0 U	5.0 U	0.21 U
Pyrene	50	ug/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	5.2 U	5.0 U	5.0 U	0.52 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	**0.051**	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	0.01 UJ	0.01 U	0.01 U	0.010 U

See Notes on Page 8.

Table 2
Groundwater Analytical Results

First Quarter 2023 Groundwater Monitoring Report
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	TMW-1D (cont.)				TMW-2D	TMW-2DR		
Date Collected:			06/01/22	08/03/22	11/21/22	02/09/23	02/24/21	08/03/22	11/21/22	02/08/23
BTEX										
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
PAHs										
Acenaphthene	20	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Acenaphthylene	- -	ug/L	0.29 U	5.0 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U
Anthracene	50	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Benzo(a)anthracene	0.002	ug/L	0.29 U	5.0 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U
Benzo(a)pyrene	- -	ug/L	0.17 U	5.0 U	0.18 U	0.18 U	5.4 U	5.0 U	0.19 U	0.18 U
Benzo(b)fluoranthene	0.002	ug/L	0.29 U	5.0 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U
Benzo(g,h,i)perylene	- -	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Benzo(k)fluoranthene	0.002	ug/L	0.29 U	5.0 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U
Chrysene	0.002	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Dibenzo(a,h)anthracene	- -	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Fluoranthene	50	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Fluorene	50	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Naphthalene	10	ug/L	0.96 U	5.0 U	0.99 U	1.0 U	5.4 U	5.0 U	1.0 U	0.98 U
Phenanthrene	50	ug/L	0.19 U	5.0 U	0.20 U	0.20 U	5.4 U	5.0 U	0.21 U	0.20 U
Pyrene	50	ug/L	0.48 U	5.0 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics										
Cyanide, Total	0.2	mg/L	0.010 U	0.010 UB	0.0100 U	0.010 U	**0.0081 J**	0.010 U	0.0100 U	0.010 U

Notes:
1. Samples were submitted to Eurofins, Buffalo, New York, for analysis using USEPA SW-846 Methods 8260B (BTEX), 8270C (PAHs), and 9012B (cyanide).
2. Sample results detected above the Method Detection Limit are presented in bold font.
3. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.

Laboratory Qualifiers:
B - The compound has been detected in the sample as well as its associated blank, its presence in the sample may be suspect.
D - Concentration is based on diluted sample analysis.
J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UB - Compound is considered non-detect at the listed value due to associated blank contamination.
UJ - The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

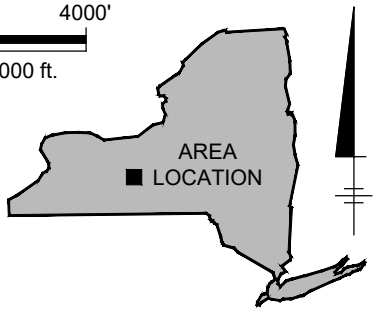
Acronyms and Abbreviations:
"- -" - Standard or Guidance Value not established
BTEX - Benzene, Ethylbenzene, Toluene, Xylenes
mg/L - milligrams per liter
ND - not detected
NYSDEC - New York State Department of Environmental Conservation
PAH - Polycyclic Aromatic Hydrocarbon
TOGS - Technical and Operational Guidance Series
ug/L - micrograms per liter
USEPA - United States Environmental Protection Agency

Figures

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., PENN YAN, NY, 2019.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

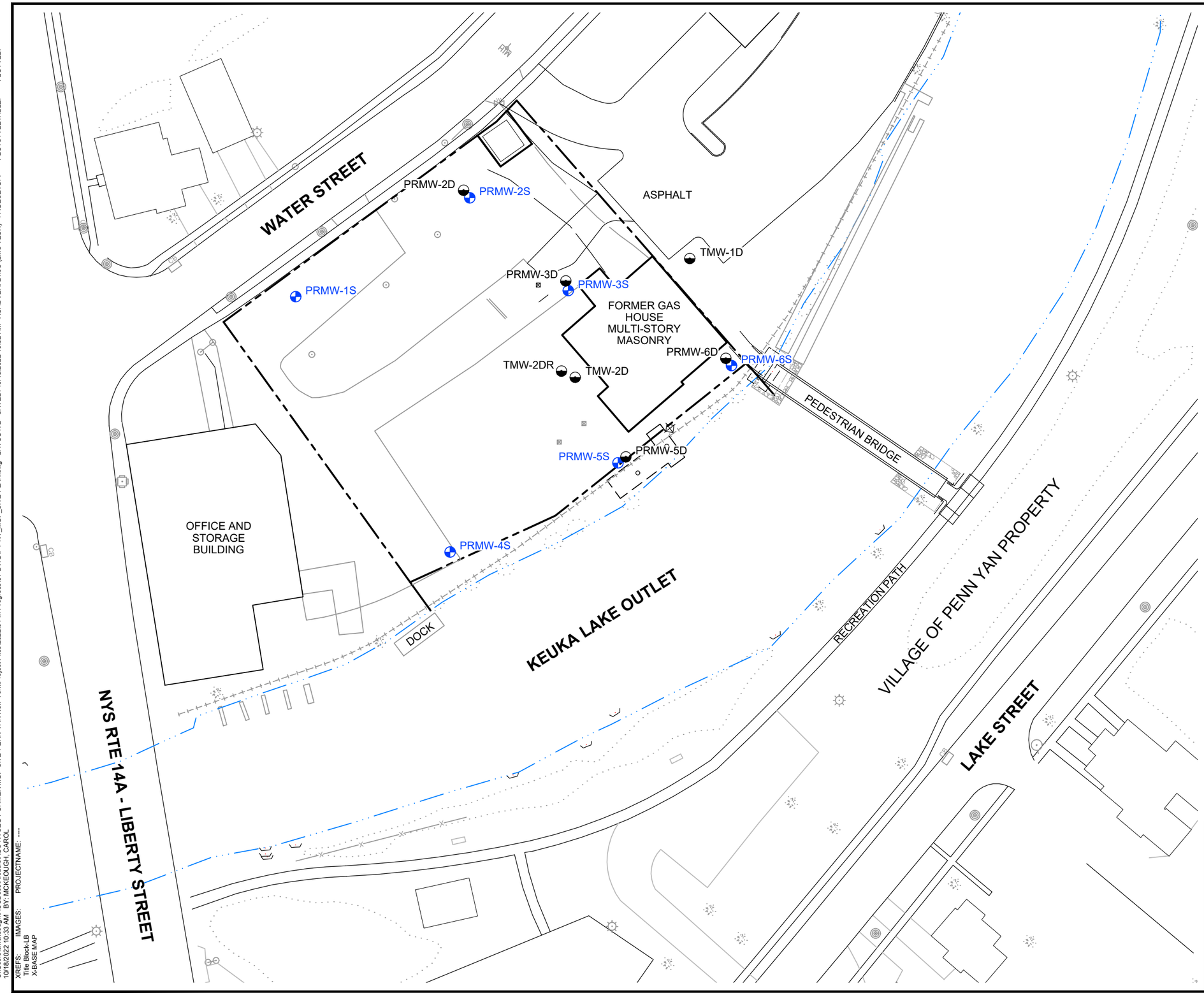


NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SITE LOCATION MAP

ARCADIS

FIGURE
1



NOTE:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.

0 50' 100'

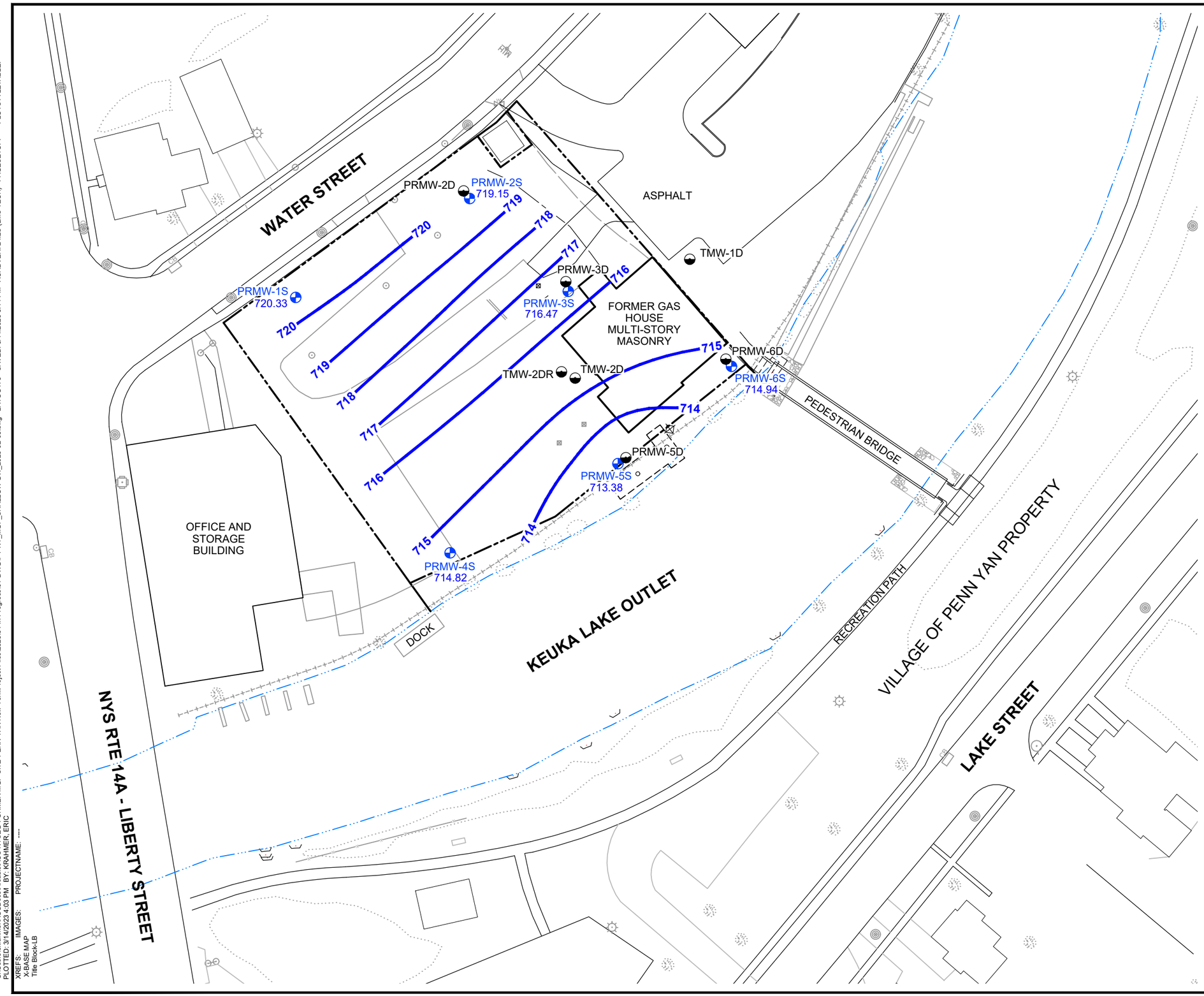
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SITE MAP

ARCADIS

FIGURE
2



LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- 718.50 GROUNDWATER ELEVATION (ASML)
- 718 GROUNDWATER CONTOUR

NOTE:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.

0 50' 100'

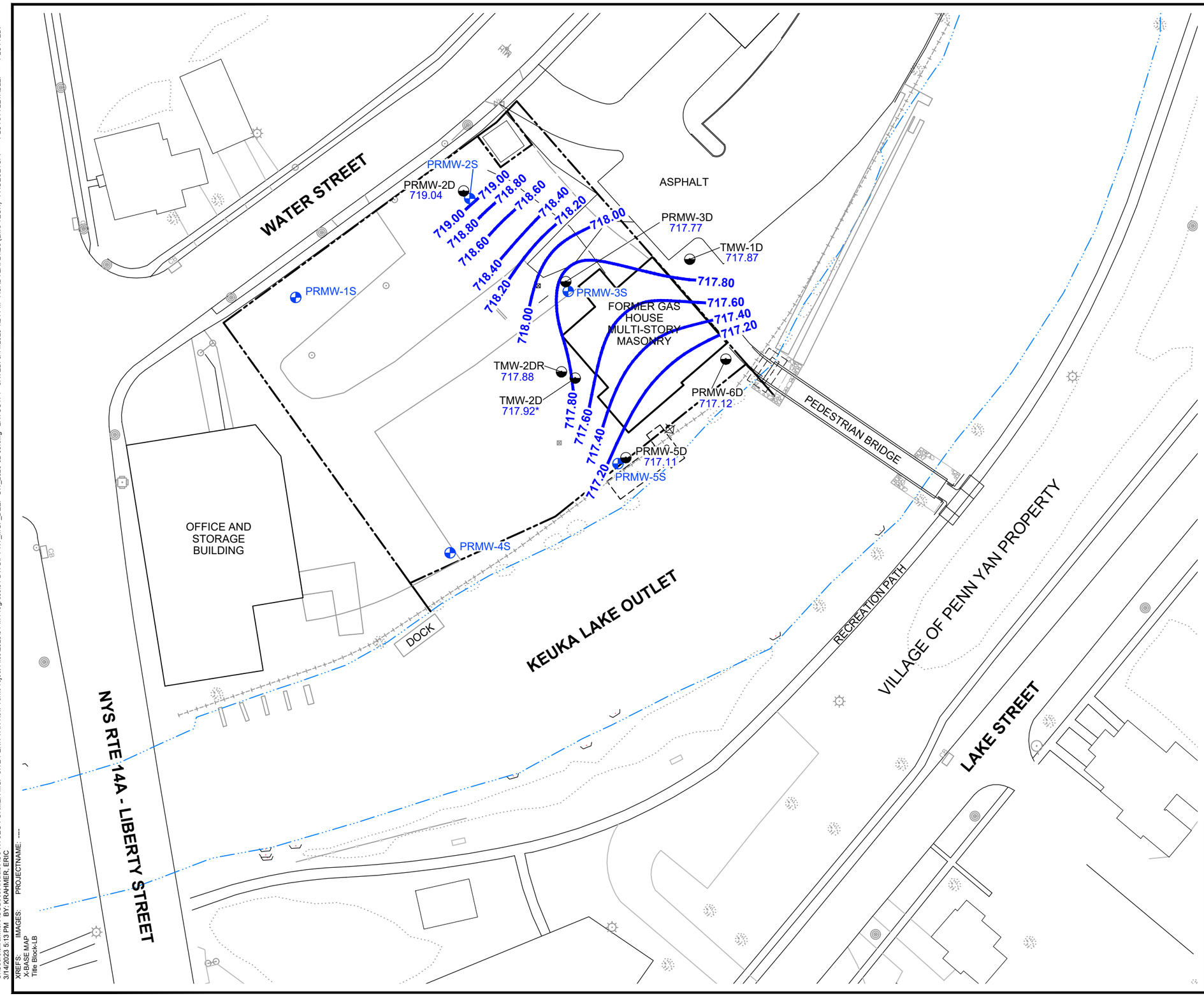
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SHALLOW GROUNDWATER CONTOUR MAP FEBRUARY 8, 2023

ARCADIS

FIGURE 3



LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- 717.11 GROUNDWATER ELEVATION (ASML)
- 718.00 GROUNDWATER CONTOUR

NOTE:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.
3. * - LOCATION NOT USED FOR CONTOURING.

0 50' 100'

GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

DEEP GROUNDWATER CONTOUR MAP FEBRUARY 8, 2023

ARCADIS

FIGURE 4

Attachment 1

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming — **Well ID:** PRMW-15
Client / Job Number: NYSEG / — **Date:** 2-8-23
Weather: Sunny, ~40°F — **Time In:** 1320 **Time Out:** 1520

Well Information

Depth to Water	10.73	(feet TIC)
Total Depth	29.68	(feet TIC)
Length of Water Column	18.95	(feet)
Volume of Water in Well	3.08	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~27	(feet TIC)

Well Type	(Flushmount)	Stick-Up	
Well Material	Stainless Steel	(PVC)	
Well Locked	(Yes)	No	* lock not on, plug sitting in casing
Measuring Point Marked	(Yes)	No	
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 140 (min)
Average Pumping Rate: (ml/min) Water-Quality Meter Type: (YSI) Lamotte 2020
Total Volume Removed: 2.25 (gal) Did well go dry: Yes No

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1330	1335	1340	1345	1350	1355	1400	1405	1410	1415	1420	1425	1430
Volume Purged (gal)	—				0.5			1.0					1.5
Rate (mL/min)	150	150	140	140	140	140	100	100	100	70	70	70	70
Depth to Water (ft.)	10.73	11.79	12.45	13.26	13.91	14.59	14.94	15.22	15.60	15.88	15.97	16.19	16.59
pH	|	6.96	6.99	7.01	7.02	7.02	7.03	7.03	7.03	7.04	7.05	7.06	7.08
Temp. (C)	|	12.8	12.7	12.6	12.6	12.7	12.5	12.2	12.3	12.2	11.6	12.0	12.3
Conductivity (mS/cm)	|	4.024	4.035	4.002	3.954	3.871	3.771	3.744	3.672	3.609	3.586	3.582	3.455
Dissolved Oxygen (mg/l)	|	0.86	0.40	0.29	0.25	0.22	0.23	0.27	0.31	0.39	0.56	0.59	0.94
ORP (mV)	|	242.1	234.0	230.0	227.8	224.6	220.4	214.6	210.4	206.9	201.1	196.8	198.1
Turbidity (NTU)	|	17.65	26.08	45.78	71.17	51.27	56.68	58.84	63.61	69.44	59.78	62.95	67.68
Notes:	clear odorless				*						+		

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-15	Sample Time: 1510	
MS/MSD	Yes (No)	
Duplicate	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By	KCF	

Problems / Observations

Initial Purge: Pump on 1330 - clear + odorless

* Bubbles in YSI - tapped flow-thru cell and angled
+ Stopped pump for ~2min to see if recharges - yes - 0.1' per 30sec.

Final Purge:

Pump off @ 1550

GROUNDWATER SAMPLING LOG

NYSEG Penn Yan, NY

Site: NYSEG Penn Yan Former MGP **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming **Well ID:** PRMW-15

Client / Job Number: NYSEG / **Date:** 2-8-23

Weather: **Time In:** — **Time Out:** —

see Page 1

Well Information

Depth to Water	(feet TIC)	Well Type	Flushmount	Stick-Up
Total Depth	(feet TIC)	Well Material	Stainless Steel	PVC
Length of Water Column	(feet)	Well Locked	Yes	No
Volume of Water in Well	(gal)	Measuring Point Marked	Yes	No
Screen Interval	(feet)	Well Diameter	2"	4"
Depth to pump Intake	(feet TIC)			

Purging Information

Purging Method	Bailer	Peristaltic	Grundfos	Other
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other
Sampling Method	Bailer	Peristaltic	Grundfos	Other

Duration of Pumping (min) Water-Quality Meter Type YSI/Lamotte 2020

Average Pumping Rate (ml/min) Did well go dry Yes No

Total Volume Removed (gal)

Conversion Factors

gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1435	1440	1445	1450	1465	1500	1505	1510					
Volume Purged (gal)						2.0		S					
Rate (mL/min)	70	70	70	70	70	70	70	A					
Depth to Water (ft.)	16.90	17.17	17.37	17.64	17.88	18.10	18.28	M					
pH	7.10	7.12	7.14	7.15	7.17	7.18	7.19	P					
Temp. (C)	12.4	12.3	12.2	12.0	12.1	12.1	2.1	L					
Conductivity (mS/cm)	3.306	3.138	2.891	2.852	2.707	2.631	2.567	E					
Dissolved Oxygen (mg/l)	1.27	1.62	2.33	2.53	2.76	2.86	2.91						
ORP (mV)	197.7	198.6	194.7	193.2	194.2	191.1	190.6						
Turbidity (NTU)	70.82	74.85	15.31	13.39	24.55	11.97	11.98						
Notes	clear no odor												

Sampling Information

Analyses	#	Laboratory
BTEXs		Buffalo-Test America
PAHs		Buffalo-Test America
Cyanide		Buffalo-Test America
1,4-Dioxane		Buffalo-Test America
Sample ID		Sample Time
MS/MSD	Yes	No
Duplicate	Yes	No
Duplicate ID		Dup Time
Chain of Custody Signed By		

Problems / Observations

Initial Purge:

See Page 1

Final Purge:

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming — **Well ID:** PRMW-25
Client / Job Number: NYSEG / — **Date:** 2-8-23
Weather: Sunny, ~40°F — **Time In:** 1200 **Time Out:** 1330

Well Information

Depth to Water:	15.50	(feet TIC)
Total Depth:	22.99	(feet TIC)
Length of Water Column:	7.49	(feet)
Volume of Water in Well:	1.22	(gal)
Screen Interval:	—	(feet)
Depth to pump Intake:	~20	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 75 (min)
Average Pumping Rate: 150 (ml/min) — Water-Quality Meter Type: (YSI) / Lamotte 2020
Total Volume Removed: 1.75 (gal) — Did well go dry: Yes No

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
Volume Purged (gal)	1205	1210	1215	1220	1225	1230	1235	1240	1245	1250	1255	1300	
Rate (mL/min)	100	150	150	150	150	150	150	150	150	150	150	S	
Depth to Water (ft.)	15.50	15.60	15.63	15.64	15.65	15.65	15.68	15.68	15.69	15.69	15.69		
pH		7.48	7.46	7.47	7.46	7.43	7.44	7.42	7.41	7.41	7.40	A	
Temp. (C)		10.3	10.4	10.1	10.2	10.2	10.6	10.6	10.8	10.9	10.9	M	
Conductivity (mS/cm)		1.480	1.551	1.575	1.610	1.653	1.649	1.687	1.702	1.715	1.726	P	
Dissolved Oxygen (mg/l)		6.01	3.98	3.39	2.71	2.24	2.31	2.01	1.87	1.76	1.69	L	
ORP (mV)		239.1	226.6	223.1	222.8	223.6	223.6	224.4	224.4	224.3	224.6	E	
Turbidity (NTU)		9.63	8.18	4.69	5.59	5.01	5.33	4.82	4.39	4.56	3.76		
Notes:	clear odorless				0.5gal purged			1.0 purged			1.5 purged		

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-25		Sample Time: 1300
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:		KCF

Problems / Observations

Initial Purge: Pump on at 1205 - clear, no odor, adjusted to 150 ml/min

Final Purge: Pump off at 1320

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: Overcast, 36°F
Well ID: PRMW-2D
Date: 2-8-23
Time In: 0800 **Time Out:** 1210

Well Information

Depth to Water	15.64	(feet TIC)
Total Depth	37.81	(feet TIC)
Length of Water Column	22.17	(feet)
Volume of Water in Well	3.61	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~30	(feet TIC)

Well Type	Flushmount	(Stick-Up)	
Well Material	Stainless Steel	(PVC)	
Well Locked	(Yes)	No	
Measuring Point Marked	(Yes)	No	
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 85 (min)
Average Pumping Rate: (ml/min) Water-Quality Meter Type: (YSI) Lamotte 2020
Total Volume Removed: ~~1.25~~ (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1015	1035	1040	1045	1050	1055	1100	1105	1110	1115			
Volume Purged (gal)	—	—			0.5				1.0	S			
Rate (mL/min)	—	150	150	100	100	100	90	90	90	A			
Depth to Water (ft.)	15.64	15.64	17.56	18.52	19.00	19.75	20.15	20.60	21.08	M			
pH	—	|	7.90	7.91	7.91	7.91	7.95	7.92	7.91	P			
Temp. (C)	—	|	11.2	10.8	10.7	10.4	10.1	10.2	9.7	L			
Conductivity (mS/cm)	—	|	0.618	0.617	0.618	0.618	0.619	0.618	0.621	E			
Dissolved Oxygen (mg/l)	—	|	5.19	4.76	4.68	4.61	4.60	4.57	4.49				
ORP (mV)	—	|	206.2	209.2	210.1	211.5	213.0	213.5	215.0				
Turbidity (NTU)	—	|	15.21	14.77	14.75	12.86	12.99	12.47	11.82				
Notes:	BKW	clear → no odor →							→				

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-2D	Sample Time: 1115	
MS/MSD:	Yes (No)	
Duplicate: —	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	KCF	

Problems / Observations

Initial Purge: Pump on @ 1015 - pump not working - troubleshoot. pumping water at 1035. Only works in "Forward" direction.

Final Purge: Pump off @ 1200

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: Partly cloudy, 39°
Well ID: PRMW-35
Date: 2/8/23
Time In: 1000 **Time Out:** 1200

Well Information

Depth to Water	7.26	(feet TIC)
Total Depth	22.82	(feet TIC)
Length of Water Column	15.56	(feet)
Volume of Water in Well	2.53	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~ 22	(feet TIC)

Well Type	Flushmount	(Stick-Up)	
Well Material	Stainless Steel	(PVC)	
Well Locked	(Yes)	No	
Measuring Point Marked	(Yes)	No	
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 115 (min)
Average Pumping Rate: 150 (ml/min) — Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 3.0 (gal) — Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1100	1105	1110
Volume Purged (gal)			0.5		1.0		1.5		2.0		2.5		S
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	A
Depth to Water (ft.)	7.80	7.97	8.11	8.25	8.33	8.39	8.39	8.54	8.54	8.54	8.75	8.75	M
pH	7.47	7.41	7.38	7.37	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36	P
Temp. (C)	8.7	8.3	8.3	8.4	8.3	8.3	8.4	8.5	8.6	8.7	8.9	8.8	L
Conductivity (mS/cm)	0.765	0.769	0.771	0.771	0.770	0.771	0.768	0.766	0.765	0.762	0.761	0.759	E
Dissolved Oxygen (mg/l)	3.80	2.68	2.34	2.13	1.96	1.83	1.73	1.66	1.58	1.49	1.47	1.37	
ORP (mV)	159.4	163.2	160.9	155.6	149.5	142.7	136.0	128.4	120.7	112.7	108.2	103.3	
Turbidity (NTU)	9.57	9.85	9.93	9.96	11.37	14.12	14.59	14.47	14.33	14.41	14.47	14.23	
Notes													

Sampling Information

Analyses	#	Laboratory
BTEXs	12	Buffalo-Test America
PAHs	8	Buffalo-Test America
Cyanide	4	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID	PRMW-35	Sample Time 1110
MS/MSD	(Yes)	No
Duplicate	(Yes)	No
Duplicate ID	DUP-20230208	Dup. Time —
Chain of Custody Signed By	Kaitlyn Fleming	

Problems / Observations

Initial Purge:

Pump on @ 10:05; clear, no odor

Final Purge:

Pump off @ 1200; clear, no odor

* DUP & MS/MSD collected here

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Well ID: PRMW-3D
Client / Job Number: NYSEG /
Date: 2/8/23
Weather: Sunny, 40°
Time In: 1200 **Time Out:** 1310

Well Information

Depth to Water:	6.04	(feet TIC)
Total Depth:	35.81	(feet TIC)
Length of Water Column:	29.77	(feet)
Volume of Water in Well:	4.85	(gal)
Screen Interval:	—	(feet)
Depth to pump Intake:	~35'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 50 (min)
Average Pumping Rate: 150 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: ~1.7 (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1215	1220	1225	1230	1235	1240	1245	1250					
Volume Purged (gal)		0.7		1.0			1.5	S					
Rate (mL/min)	150	150	150	150	150	150	150	A					
Depth to Water (ft.)	7.28	7.72	7.75	7.75	7.79	7.79	7.79	M					
pH	7.68	7.69	7.70	7.71	7.72	7.73	7.73	P					
Temp. (C)	9.2	9.4	9.2	9.3	9.2	9.4	9.5	L					
Conductivity (mS/cm)	0.487	0.486	0.486	0.484	0.485	0.485	0.485	E					
Dissolved Oxygen (mg/l)	1.55	1.10	0.97	0.88	0.81	0.78	0.75	↓					
ORP (mV)	2.1	-17.6	-19.4	-34.7	-47.3	-50.3	-52.1						
Turbidity (NTU)	14.80	11.96	11.95	10.62	8.57	8.93	8.39	↓					
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-3D		Sample Time: 1250
MS/MSD	Yes	(No)
Duplicate	Yes	(No)
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By:	KCF	

Problems / Observations

Initial Purge:

Pump on @ 1210; clear, no odor

Final Purge:

Pump off @ 1300; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Well ID: PRMW-45
Client / Job Number: NYSEG /
Date: 2-9-23
Weather: 32°F, Rain
Time In: 0750 **Time Out:** 0945

Well Information

Depth to Water	7.05	(feet TIC)
Total Depth	27.10	(feet TIC)
Length of Water Column	20.05	(feet)
Volume of Water in Well	3.20	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~25	(feet TIC)

Well Type	Flushmount	(Stick-Up)
Well Material	Stainless Steel	(PVC)
Well Locked	(Yes)	No
Measuring Point Marked	(Yes)	No
Well Diameter	(2")	4"

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	(YSI/Lamotte 2020	
Total Volume Removed:	2.5 (gal)	Did well go dry:	Yes	No

Conversion Factors

gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	0805	0810	0815	0820	0825	0830	0835	0840	0845	0850	0855	0900	0905
Volume Purged (gal)	-				0.5			1.0			1.5		
Rate (mL/min)	150	150	150	150	150	150	~~150~~ 130	130	130	130	130	130	130
Depth to Water (ft.)	7.05	7.92	~~7.55~~	8.29	8.39	8.44	8.42	8.42	8.45	8.38	8.38	8.38	8.38
pH	|	7.61	7.55	7.59	7.58	7.55	7.53	7.49	~~7.47~~ 7.47	7.46	7.43	7.41	7.35
Temp. (C)	|	8.7	8.3	8.7	8.8	9.7	8.7	8.9	9.0	9.0	8.9	9.2	9.3
Conductivity (mS/cm)	|	0.815	0.798	0.817	0.831	0.894	0.936	0.989	1.035	1.086	1.097	1.138	1.185
Dissolved Oxygen (mg/l)	|	2.76	1.54	1.33	1.24	1.11	1.01	0.93	0.82	0.77	0.70	0.64	0.58
ORP (mV)	|	198.9	192.3	178.9	174.1	170.4	167.9	164.3	156.2	156.3	153.0	150.8	151.5
Turbidity (NTU)	|	34.44	27.06	18.05	20.57	14.24	15.11	12.92	13.57	14.83	15.70	17.20	17.77
Notes:	yellow no odor	clear no odor	DTW: 8.14 clear no odor										↓

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-45	Sample Time: 0920	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	KCF	

Problems / Observations

Initial Purge: Pump on at 0805 - yellowish + clear, no odor

Final Purge: Pump off at 0935

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming — **Well ID:** PRMW-45

Client / Job Number: NYSEG / — **Date:** 2-9-23

Weather: — **Time In:** — **Time Out:** —

Well Information

Depth to Water	(feet TIC)
Total Depth	(feet TIC)
Length of Water Column	(feet)
Volume of Water in Well	(gal)
Screen Interval	(feet)
Depth to pump Intake	(feet TIC)

Well Type	Flushmount	Stick-Up
Well Material	Stainless Steel	PVC
Well Locked	Yes	No
Measuring Point Marked	Yes	No
Well Diameter	2"	4"

see Page 1

Purging Information

Purging Method	Bailer	Peristaltic	Grundfos	Other
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other
Sampling Method	Bailer	Peristaltic	Grundfos	Other

Duration of Pumping (min)

Average Pumping Rate (ml/min) — Water-Quality Meter Type: YSI/Lamotte 2020

Total Volume Removed (gal) — Did well go dry: Yes / No

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0910	0915	0920										
Volume Purged (gal)	2.0		S										
Rate (mL/min)	130	130											
Depth to Water (ft.)	8.40	8.42	A										
pH	7.39	7.38	m										
Temp. (C)	9.3	9.6	p										
Conductivity (mS/cm)	1.172	1.183	L										
Dissolved Oxygen (mg/l)	0.57	0.53	E										
ORP (mV)	147.2	144.4											
Turbidity (NTU)	19.08	20.97											
Notes:	clear → no odor												

Sampling Information

Analyses	#	Laboratory
BTEXs		Buffalo-Test America
PAHs		Buffalo-Test America
Cyanide		Buffalo-Test America
1,4-Dioxane		Buffalo-Test America
Sample ID		Sample Time
MS/MSD	Yes	No
Duplicate	Yes	No
Duplicate ID		Dup. Time
Chain of Custody Signed By		

Problems / Observations

Initial Purge:

See Page 1

Final Purge:

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: Rain, 32°F
Well ID: PRMW-5S
Date: 2-9-23
Time In: 0945 **Time Out:** 1120

Well Information

Depth to Water	7.42	(feet TIC)
Total Depth	31.59	(feet TIC)
Length of Water Column	24.17	(feet)
Volume of Water in Well	3.93	(gal)
Screen Interval		(feet)
Depth to pump Intake	~21.0	(feet TIC)

Well Type	Flushmount	(Stick-Up)	
Well Material	Stainless Steel	(PVC)	
Well Locked		(Yes)	No
Measuring Point Marked		(Yes)	No
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping		(min)		
Average Pumping Rate	150	(ml/min)	Water-Quality Meter Type	(YSI)/Lamotte 2020
Total Volume Removed	2.25	(gal)	Did well go dry	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13	
	0955	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1100
Volume Purged (gal)	~~15~~			0.5			1.0			1.5			2.0	
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	150	S
Depth to Water (ft.)	7.42	7.58	7.59	7.59	7.61	7.62	7.62	7.64	7.65	7.67	7.68	7.69	7.70	A
pH			7.68	7.65	7.64	7.63	7.62	7.62	7.61	7.61	7.60	7.60	7.60	
Temp. (C)			9.2	8.9	9.0	9.3	9.4	9.3	9.5	9.3	8.8	9.2	9.7	M
Conductivity (mS/cm)			0.653	0.630	0.629	0.629	0.634	0.638	0.647	0.647	0.647	0.646	0.646	P
Dissolved Oxygen (mg/l)			3.75	0.64	0.30	0.23	0.19	0.35	0.31	0.17	0.13	0.12	0.12	L
ORP (mV)			104.2	93.6	88.9	84.2	60.4	55.3	34.2	27.5	22.1	17.8	12.8	E
Turbidity (NTU)			217.64	168.90	139.92	124.70	102.47	97.75	38.57	28.60	25.14	26.48	23.68	
Notes:	Light gray, turbid, susp. particles, slight odor		lgt. gray slight odor						clear					
								*	slight odor					

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-5S	Sample Time: 1100	
MS/MSD	Yes (No)	
Duplicate	Yes (No)	
Duplicate ID	—	Dup Time —
Chain of Custody Signed By		

Problems / Observations

Initial Purge: Pump on at 0955 - turbid, light gray, slight odor, fine suspended particles

* Pump off for ~2 mins (moved car)

Final Purge: Pump off at 1118

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming — **Well ID:** PRMW-5D
Client / Job Number: NYSEG / — **Date:** 2-9-23
Weather: ~32°F, Rain — **Time In:** 1120 — **Time Out:** 1320

Well Information

Depth to Water	3.60	(feet TIC)
Total Depth	32.73	(feet TIC)
Length of Water Column	29.13	(feet)
Volume of Water in Well	4.74	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~28	(feet TIC)

Well Type	Flushmount	(Stick-Up)
Well Material	Stainless Steel	(PVC)
Well Locked	(Yes)	No
Measuring Point Marked	(Yes)	No
Well Diameter	(2")	4"

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 105 (min)
Average Pumping Rate: 100 (ml/min) — Water-Quality Meter Type: (YSI) Lamotte 2020
Total Volume Removed: 2.5 (gal) — Did well go dry: Yes (No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1125	1130	1135	1140	1145	1150	1155	1200	1205	1210	1215	1220	1225
Volume Purged (gal)					0.5				1.0				1.5
Rate (mL/min)	150	150	100	100	100	100	100	100	100	100	100	100	100
Depth to Water (ft.)	3.60	5.10	5.46	5.77	6.00	6.08	6.17	6.21	6.26	6.28	6.30	6.31	6.32
pH	|	7.90	7.90	7.90	7.90	7.80	7.90	7.89	7.90	7.90	7.89	7.88	7.89
Temp. (C)	|	9.0	8.7	8.6	9.2	9.5	9.5	9.5	9.5	9.6	9.4	9.6	9.6
Conductivity (mS/cm)	|	0.443	0.444	0.442	0.442	0.442	0.442	0.443	0.443	0.442	0.444	0.443	0.443
Dissolved Oxygen (mg/l)	|	0.46	0.32	0.24	0.19	0.17	0.16	0.15	0.13	0.12	0.11	0.11	0.10
ORP (mV)	|	-14.9	-22.2	-35.7	-44.8	-51.5	-58.4	-53.7	-51.2	-75.4	-72.0	-48.5	-70.8
Turbidity (NTU)	|	38.05	107.40	192.44	172.46	253.50	201.96	147.21	301.75	367.87	300.08	123.15	280.32
Notes:	clear →		cloudy	light-gray suspended particles									→
	odorless →		odorless										→

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-5D	Sample Time: 1300	
MS/MSD	Yes (No)	
Duplicate	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	KCF	

Problems / Observations

Initial Purge: Pump on at 1125 - clear, no odor

Final Purge: Pump off at 1315

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: —
Well ID: PRMW-5D
Date: 2-9-23
Time In: — **Time Out:** —

Well Information

Depth to Water	(feet TIC)
Total Depth	(feet TIC)
Length of Water Column	(feet)
Volume of Water in Well	(gal)
Screen Interval	(feet)
Depth to Pump Intake	(feet TIC)

Well Type	Flushmount	Stick-Up
Well Material	Stainless Steel	PVC
Well Locked	Yes	No
Measuring Point Marked	Yes	No
Well Diameter	2"	4"

See Page 2

Purging Information

Purging Method	Bailer	Peristaltic	Grundfos	Other:
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other:
Sampling Method	Bailer	Peristaltic	Grundfos	Other:
Duration of Pumping	(min)			
Average Pumping Rate	(ml/min)	Water-Quality Meter Type	YSI/Lamotte 2020	
Total Volume Removed	(gal)	Did well go dry	Yes	No

Conversion Factors

gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1230	1235	1240	1245	1250	1300							
Volume Purged (gal)				2.0		S							
Rate (mL/min)	100	100	100	100	100	A							
Depth to Water (ft.)	6.32	6.32	6.32	6.32	6.34	M							
pH	7.90	7.90	7.90	7.89	7.90	P							
Temp. (C)	9.7	9.8	9.9	10.1	9.9	L							
Conductivity (mS/cm)	0.444	0.441	0.441	0.441	0.441	E							
Dissolved Oxygen (mg/l)	0.09	0.08	0.08	0.08	0.07								
ORP (mV)	-86.6	-92.5	-93.9	-86.8	-95.8								
Turbidity (NTU)	418.22	526.35	610.16	513.66	836.57								
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs		Buffalo-Test America
PAHs		Buffalo-Test America
Cyanide		Buffalo-Test America
1,4-Dioxane		Buffalo-Test America
Sample ID:		Sample Time:
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID:		Dup. Time:
Chain of Custody Signed By:		

Problems / Observations

Initial Purge:

See Page 1

Final Purge:

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel:	Bailey KudlaWilliams / Kaitlyn Fleming	**Well ID:**	PRMW-65
Client / Job Number:	NYSEG /	**Date:**	2/9/2023
Weather:	Rain, 35°	**Time In:** 0750	**Time Out:** 0915

Well Information

Depth to Water	6.16	(feet TIC)
Total Depth	23.05	(feet TIC)
Length of Water Column	16.89	(feet)
Volume of Water in Well	2.75	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~ 20'	(feet TIC)

Well Type	Flushmount	(Stick-Up)	
Well Material	Stainless Steel	(PVC)	
Well Locked	(Yes)	No	
Measuring Point Marked	(Yes)	No	
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping	70	(min)		
Average Pumping Rate	150	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed	2.0	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0805	0810	0815	0820	0825	0830	0835	0840	0845	0850	0855		
Volume Purged (gal)		0.5			1.0			1.5			S		
Rate (mL/min)	150	150	150	150	150	130	130	130	130	130	A		
Depth to Water (ft.)	6.95	8.98	8.98	10.38	11.31	11.31	12.60	13.39	13.39	13.39	M		
pH	7.87	7.83	7.82	7.82	7.82	7.82	7.81	7.81	7.81	7.80	P		
Temp. (C)	8.7	8.8	8.6	8.5	8.4	8.4	8.4	8.5	8.5	8.6	L		
Conductivity (mS/cm)	0.424	0.423	0.423	0.423	0.424	0.423	0.424	0.424	0.425	0.425	E		
Dissolved Oxygen (mg/l)	2.08	1.14	0.98	0.89	0.84	0.81	0.79	0.78	0.78	0.77	|		
ORP (mV)	108.0	59.6	36.5	19.5	5.0	-6.2	-14.1	-23.9	-30.8	-33.7	|		
Turbidity (NTU)	9.00	9.70	11.47	9.70	11.81	10.20	10.15	10.27	10.45	10.56	V		
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-65		Sample Time: 0855
MS/MSD	Yes (No)	
Duplicate	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By	KCF	

Problems / Observations

Initial Purge:

Pump on @ 0800; clear, no odor

Final Purge:

Pump off @ 0910; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel:	Bailey KudlaWilliams / Kaitlyn Fleming	**Well ID:**	PRMW-6D
Client / Job Number:	NYSEG /	**Date:**	2/9/23
Weather:	Rain, 35° F	**Time In:**	0920 **Time Out:** 1020

Well Information

Depth to Water	4.10	(feet TIC)
Total Depth	36.90	(feet TIC)
Length of Water Column	32.80	(feet)
Volume of Water in Well	5.34	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~ 35	(feet TIC)

Well Type	Flushmount	(Stick-Up)	
Well Material	Stainless Steel	(PVC)	
Well Locked	(Yes)	No	
Measuring Point Marked	(Yes)	No	
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other
Duration of Pumping	50 (min)			
Average Pumping Rate	150 (ml/min)	Water-Quality Meter Type	YSI/Lamotte 2020	
Total Volume Removed	1.7 (gal)	Did well go dry	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0930	0935	0940	0945	0950	0955	1000	1005					
Volume Purged (gal)		0.5			1.0		1.5	S					
Rate (mL/min)	150	150	150	150	150	150	150	A					
Depth to Water (ft.)	5.11	5.32	5.32	5.32	5.32	5.32	5.32	M					
pH	7.91	7.91	7.91	7.91	7.91	7.91	7.91	P					
Temp. (C)	9.0	9.1	9.0	9.2	9.2	9.3	9.3	L					
Conductivity (mS/cm)	0.438	0.439	0.439	0.439	0.439	0.439	0.438	E					
Dissolved Oxygen (mg/l)	1.45	0.99	0.88	0.81	0.76	0.73	0.70	↓					
ORP (mV)	-135.2	-147.1	-152.3	-156.2	-159.2	-161.9	-164.6						
Turbidity (NTU)	4.37	3.06	2.42	2.76	4.81	3.63	2.48						
Notes													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-6D	Sample Time: 1005	
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID: —	Dup Time: —	
Chain of Custody Signed By:	KLF	

Problems / Observations

Initial Purge:

Pump on @ 0925, clear, no odor

Final Purge:

Pump off @ 1015, clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Well ID: TMW-1D
Client / Job Number: NYSEG /
Date: 2/9/2023
Weather: ~~Sunny~~ Rain, 35° F
Time In: 1030 **Time Out:**

Well Information

Depth to Water	5.58	(feet TIC)
Total Depth	63.28	(feet TIC)
Length of Water Column	57.70	(feet)
Volume of Water in Well	9.40	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~ 50	(feet TIC)

Well Type	(Flushmount)	Stick-Up
Well Material	Stainless Steel	(PVC)
Well Locked	(Yes)	No
Measuring Point Marked	(Yes)	No
Well Diameter	(2")	4"

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 60 (min)
Average Pumping Rate: 150 (ml/min) — Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 2.5 (gal) — Did well go dry: Yes (No)

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1045	1050	1055	1100	1105	1110	1115	1120	1125	1130	1135		
Volume Purged (gal)											9		
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	A		
Depth to Water (ft.)	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	M		
pH	7.69	7.70	7.71	7.72	7.74	7.75	7.75	7.76	7.76	7.77	P		
Temp. (C)	10.8	11.1	11.2	11.3	11.4	11.4	11.4	11.5	11.5	11.5	L		
Conductivity (mS/cm)	0.485	0.485	0.485	0.485	0.485	0.485	0.485	0.486	0.486	0.486	E		
Dissolved Oxygen (mg/l)	1.42	0.97	0.84	0.77	0.72	0.69	0.67	0.65	0.64	0.62			
ORP (mV)	54.3	49.2	34.7	-43.8	-91.7	-106.9	-114.3	-120.5	-124.7	-150.2			
Turbidity (NTU)	6.82	6.72	5.97	5.52	4.86	4.60	4.79	4.02	4.15	4.96			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: TMW-1D	Sample Time: 1135	
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	KCF	

Problems / Observations

Initial Purge:

Pump on @ 10:40; clear, no odor

Final Purge:

Pump off @ 11:40, clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2023 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming
Well ID: TMW - 2DR
Client / Job Number: NYSEG /
Date: 2/8/2023
Weather: Sunny, 39°
Time In: 1315 **Time Out:** 1450

Well Information

Depth to Water	1.35	(feet TIC)
Total Depth	59.08	(feet TIC)
Length of Water Column	57.73	(feet)
Volume of Water in Well	9.40	(gal)
Screen Interval	—	(feet)
Depth to pump Intake	~58.0	(feet TIC)

Well Type	(Flushmount)	(Stick-Up)
Well Material	Stainless Steel	(PVC)
Well Locked	(Yes)	No
Measuring Point Marked	(Yes)	No
Well Diameter	(2")	4"

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 75 (min)
Average Pumping Rate: 150 (ml/min) — Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 3.5 (gal) — Did well go dry: Yes (No)

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1330	1335	1340	1345	1350	1355	1400	1405	1410	1415	1420	1425	1430
Volume Purged (gal)		0.5		1.0		1.5		2.0		2.5		3.0	S
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	A
Depth to Water (ft)	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	M
pH	7.75	7.74	7.73	7.72	7.72	7.71	7.71	7.71	7.71	7.71	7.71	7.71	P
Temp. (C)	10.6	10.6	10.6	10.7	10.8	10.8	10.9	11.0	11.0	11.0	11.1	11.1	L
Conductivity (mS/cm)	0.484	0.484	0.484	0.483	0.484	0.484	0.486	0.487	0.490	0.492	0.492	0.494	E
Dissolved Oxygen (mg/l)	1.52	1.26	1.08	1.02	0.97	0.88	0.81	0.74	0.68	0.63	0.64	0.60	↓
ORP (mV)	89.7	83.5	77.9	73.4	69.6	64.2	28.4	-28.5	-62.5	-88.6	-83.7	-90.4	
Turbidity (NTU)	22.31	25.45	28.27	28.32	34.32	34.25	34.23	38.88	38.67	24.14	24.58	24.09	
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: TMW-2DR	Sample Time: 1430	
MS/MSD	Yes (No)	
Duplicate	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By	KCF	

Problems / Observations

Initial Purge:

Pump on @ 1325, clear, no odor

Final Purge:

Pump off @ 1440; clear, no odor

Attachment 2

Groundwater Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. John J Ruspantini
New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Generated 2/23/2023 2:09:05 PM

JOB DESCRIPTION

NYSEG Former MGP Site - Penn Yan
NYSEG - Penn Yan Former MGP

JOB NUMBER

480-206133-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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Table of Contents

Definitions/Glossary

Client: New York State Electric & Gas
Job ID: 480-206133-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-206133-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-206133-1

Comments
No additional comments.

Receipt
The samples were received on 2/9/2023 7:51 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.4º C, 4.5º C, 4.5º C, 4.6º C and 5.8º C.

GC/MS VOA
Method 8260C: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: PRMW-3S MSD (480-206133-4[MSD]). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-658551 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated sample is impacted: PRMW-3S MSD (480-206133-4[MSD]).

Method 8260C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 480-658551 was outside control limits. The associated samples are impacted: PRMW-3S MS (480-206133-4[MS]) and PRMW-3S MSD (480-206133-4[MSD]).

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

GC/MS Semi VOA
Method 8270D LL: The following sample was diluted due to color, appearance, and viscosity: PRMW-5S (480-206133-7). Elevated reporting limits (RL) are provided.

Method 8270D LL: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TMW-2DR (480-206133-12). These results have been reported and qualified.

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

General Chemistry
Method 9012B: The method blank for analytical batch 480-659311 contained Cyanide, Total above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of sample was not performed.DUP-20230208 (480-206133-16)

Method 9012B: The method blank 480-659311/47 contained Cyanide, Total above the method detection limit (MDL). Associated sample was qualified and reported: PRMW-5S (480-206133-7).

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

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

Detection Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-1S — Lab Sample ID: 480-206133-1

No Detections.

Client Sample ID: PRMW-2S — Lab Sample ID: 480-206133-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.078	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-2D — Lab Sample ID: 480-206133-3

No Detections.

Client Sample ID: PRMW-3S — Lab Sample ID: 480-206133-4

No Detections.

Client Sample ID: PRMW-3D — Lab Sample ID: 480-206133-5

No Detections.

Client Sample ID: PRMW-4S — Lab Sample ID: 480-206133-6

No Detections.

Client Sample ID: PRMW-5S — Lab Sample ID: 480-206133-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.6		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	2.0		1.0	0.74	ug/L	1		8260C	Total/NA
Xylenes, Total	1.3	J	2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	16		2.5	0.18	ug/L	5		8270D LL	Total/NA
Acenaphthylene	2.6		1.5	0.28	ug/L	5		8270D LL	Total/NA
Fluoranthene	1.3	J	2.5	0.40	ug/L	5		8270D LL	Total/NA
Fluorene	6.3		2.5	0.29	ug/L	5		8270D LL	Total/NA
Naphthalene	13		5.0	0.32	ug/L	5		8270D LL	Total/NA
Phenanthrene	2.4		1.0	0.31	ug/L	5		8270D LL	Total/NA
Pyrene	0.95	J	2.5	0.38	ug/L	5		8270D LL	Total/NA
Cyanide, Total	0.041	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-5D — Lab Sample ID: 480-206133-8

No Detections.

Client Sample ID: PRMW-6S — Lab Sample ID: 480-206133-9

No Detections.

Client Sample ID: PRMW-6D — Lab Sample ID: 480-206133-10

No Detections.

Client Sample ID: TMW-1D — Lab Sample ID: 480-206133-11

No Detections.

Client Sample ID: TMW-2DR — Lab Sample ID: 480-206133-12

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-206133-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: New York State Electric & Gas
Job ID: 480-206133-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: FIELD BLANK — Lab Sample ID: 480-206133-14

No Detections.

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 480-206133-15

No Detections.

Client Sample ID: DUP-20230208 — Lab Sample ID: 480-206133-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-1S

Date Collected: 02/08/23 15:10
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-1

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 15:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 15:40	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 15:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/13/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*02/13/23 15:40*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/13/23 15:40*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/13/23 15:40*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		02/13/23 09:31	02/14/23 14:43	1
Acenaphthylene	ND		0.29	0.053	ug/L		02/13/23 09:31	02/14/23 14:43	1
Anthracene	ND		0.48	0.032	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		02/13/23 09:31	02/14/23 14:43	1
Chrysene	ND		0.48	0.070	ug/L		02/13/23 09:31	02/14/23 14:43	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		02/13/23 09:31	02/14/23 14:43	1
Fluoranthene	ND		0.48	0.076	ug/L		02/13/23 09:31	02/14/23 14:43	1
Fluorene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 14:43	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		02/13/23 09:31	02/14/23 14:43	1
Naphthalene	ND		0.95	0.061	ug/L		02/13/23 09:31	02/14/23 14:43	1
Phenanthrene	ND		0.19	0.059	ug/L		02/13/23 09:31	02/14/23 14:43	1
Pyrene	ND		0.48	0.072	ug/L		02/13/23 09:31	02/14/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*02/13/23 09:31*	*02/14/23 14:43*	*1*
Nitrobenzene-d5 (Surr)	*71*		*26 - 120*	*02/13/23 09:31*	*02/14/23 14:43*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*02/13/23 09:31*	*02/14/23 14:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	0.010	0.0041	mg/L			02/20/23 12:32	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-2S

Date Collected: 02/08/23 13:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-2

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 16:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 16:05	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 16:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 16:05*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*02/13/23 16:05*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/13/23 16:05*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/13/23 16:05*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		02/13/23 09:31	02/14/23 15:11	1
Acenaphthylene	ND		0.29	0.053	ug/L		02/13/23 09:31	02/14/23 15:11	1
Anthracene	ND		0.48	0.032	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		02/13/23 09:31	02/14/23 15:11	1
Chrysene	ND		0.48	0.070	ug/L		02/13/23 09:31	02/14/23 15:11	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		02/13/23 09:31	02/14/23 15:11	1
Fluoranthene	ND		0.48	0.076	ug/L		02/13/23 09:31	02/14/23 15:11	1
Fluorene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 15:11	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		02/13/23 09:31	02/14/23 15:11	1
Naphthalene	ND		0.95	0.061	ug/L		02/13/23 09:31	02/14/23 15:11	1
Phenanthrene	ND		0.19	0.059	ug/L		02/13/23 09:31	02/14/23 15:11	1
Pyrene	ND		0.48	0.072	ug/L		02/13/23 09:31	02/14/23 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*112*		*37 - 120*	*02/13/23 09:31*	*02/14/23 15:11*	*1*
Nitrobenzene-d5 (Surr)	*89*		*26 - 120*	*02/13/23 09:31*	*02/14/23 15:11*	*1*
p-Terphenyl-d14	*96*		*64 - 127*	*02/13/23 09:31*	*02/14/23 15:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.078**	**B**	0.010	0.0041	mg/L			02/20/23 12:37	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-2D

Date Collected: 02/08/23 11:15
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-3

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 16:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 16:29	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 16:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 16:29*	*1*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*02/13/23 16:29*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/13/23 16:29*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*		*02/13/23 16:29*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/13/23 09:31	02/14/23 15:38	1
Acenaphthylene	ND		0.32	0.059	ug/L		02/13/23 09:31	02/14/23 15:38	1
Anthracene	ND		0.53	0.036	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[k]fluoranthene	ND		0.32	0.074	ug/L		02/13/23 09:31	02/14/23 15:38	1
Chrysene	ND		0.53	0.078	ug/L		02/13/23 09:31	02/14/23 15:38	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/13/23 09:31	02/14/23 15:38	1
Fluoranthene	ND		0.53	0.084	ug/L		02/13/23 09:31	02/14/23 15:38	1
Fluorene	ND		0.53	0.061	ug/L		02/13/23 09:31	02/14/23 15:38	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		02/13/23 09:31	02/14/23 15:38	1
Naphthalene	ND		1.1	0.067	ug/L		02/13/23 09:31	02/14/23 15:38	1
Phenanthrene	ND		0.21	0.065	ug/L		02/13/23 09:31	02/14/23 15:38	1
Pyrene	ND		0.53	0.080	ug/L		02/13/23 09:31	02/14/23 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*37 - 120*	*02/13/23 09:31*	*02/14/23 15:38*	*1*
Nitrobenzene-d5 (Surr)	*72*		*26 - 120*	*02/13/23 09:31*	*02/14/23 15:38*	*1*
p-Terphenyl-d14	*79*		*64 - 127*	*02/13/23 09:31*	*02/14/23 15:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 12:40	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-3S

Date Collected: 02/08/23 11:10
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-4

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 16:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 16:53	1
Toluene	ND	F1 F2	1.0	0.51	ug/L			02/13/23 16:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/13/23 16:53*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*02/13/23 16:53*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/13/23 16:53*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/13/23 16:53*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 14:15	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 14:15	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 14:15	1
Chrysene	ND	F1	0.49	0.072	ug/L		02/13/23 09:31	02/14/23 14:15	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 14:15	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 14:15	1
Fluorene	ND	F2	0.49	0.057	ug/L		02/13/23 09:31	02/14/23 14:15	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 14:15	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 14:15	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 14:15	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*112*		*37 - 120*	*02/13/23 09:31*	*02/14/23 14:15*	*1*
Nitrobenzene-d5 (Surr)	*89*		*26 - 120*	*02/13/23 09:31*	*02/14/23 14:15*	*1*
p-Terphenyl-d14	*94*		*64 - 127*	*02/13/23 09:31*	*02/14/23 14:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:01	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-3D

Date Collected: 02/08/23 12:50
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-5

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 17:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 17:17	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 17:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 17:17*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*02/13/23 17:17*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/13/23 17:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/13/23 17:17*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 16:06	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 16:06	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 16:06	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 16:06	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 16:06	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 16:06	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:06	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 16:06	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 16:06	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 16:06	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*111*		*37 - 120*	*02/13/23 09:31*	*02/14/23 16:06*	*1*
Nitrobenzene-d5 (Surr)	*90*		*26 - 120*	*02/13/23 09:31*	*02/14/23 16:06*	*1*
p-Terphenyl-d14	*95*		*64 - 127*	*02/13/23 09:31*	*02/14/23 16:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 12:42	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-4S

Date Collected: 02/09/23 09:20
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-6

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 17:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 17:41	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 17:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*02/13/23 17:41*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*02/13/23 17:41*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/13/23 17:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/13/23 17:41*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 16:34	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 16:34	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 16:34	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 16:34	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 16:34	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 16:34	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:34	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 16:34	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 16:34	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 16:34	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*37 - 120*	*02/13/23 09:31*	*02/14/23 16:34*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*02/13/23 09:31*	*02/14/23 16:34*	*1*
p-Terphenyl-d14	*82*		*64 - 127*	*02/13/23 09:31*	*02/14/23 16:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 12:45	1

Client Sample ID: PRMW-5S
Lab Sample ID: 480-206133-7

Date Collected: 02/09/23 11:00
Matrix: Ground Water

Date Received: 02/09/23 19:51

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.6**		1.0	0.41	ug/L			02/13/23 18:05	1
Ethylbenzene	**2.0**		1.0	0.74	ug/L			02/13/23 18:05	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 18:05	1
Xylenes, Total	**1.3**	**J**	2.0	0.66	ug/L			02/13/23 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 18:05*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*02/13/23 18:05*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/13/23 18:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/13/23 18:05*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**16**		2.5	0.18	ug/L		02/13/23 09:31	02/14/23 17:02	5
Acenaphthylene	**2.6**		1.5	0.28	ug/L		02/13/23 09:31	02/14/23 17:02	5
Anthracene	ND		2.5	0.17	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[a]anthracene	ND		1.5	0.17	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[a]pyrene	ND		0.90	0.65	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[b]fluoranthene	ND		1.5	0.32	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[g,h,i]perylene	ND		2.5	0.29	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[k]fluoranthene	ND		1.5	0.35	ug/L		02/13/23 09:31	02/14/23 17:02	5
Chrysene	ND		2.5	0.37	ug/L		02/13/23 09:31	02/14/23 17:02	5
Dibenz(a,h)anthracene	ND		2.5	0.35	ug/L		02/13/23 09:31	02/14/23 17:02	5
Fluoranthene	**1.3**	**J**	2.5	0.40	ug/L		02/13/23 09:31	02/14/23 17:02	5
Fluorene	**6.3**		2.5	0.29	ug/L		02/13/23 09:31	02/14/23 17:02	5
Indeno[1,2,3-cd]pyrene	ND		2.5	0.55	ug/L		02/13/23 09:31	02/14/23 17:02	5
Naphthalene	**13**		5.0	0.32	ug/L		02/13/23 09:31	02/14/23 17:02	5
Phenanthrene	**2.4**		1.0	0.31	ug/L		02/13/23 09:31	02/14/23 17:02	5
Pyrene	**0.95**	**J**	2.5	0.38	ug/L		02/13/23 09:31	02/14/23 17:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*37 - 120*	*02/13/23 09:31*	*02/14/23 17:02*	*5*
Nitrobenzene-d5 (Surr)	*70*		*26 - 120*	*02/13/23 09:31*	*02/14/23 17:02*	*5*
p-Terphenyl-d14	*79*		*64 - 127*	*02/13/23 09:31*	*02/14/23 17:02*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.041**	**B**	0.010	0.0041	mg/L			02/20/23 12:48	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-5D

Date Collected: 02/09/23 13:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-8

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 18:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 18:29	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 18:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/13/23 18:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*02/13/23 18:29*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/13/23 18:29*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/13/23 18:29*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 17:30	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 17:30	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 17:30	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 17:30	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 17:30	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 17:30	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:30	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 17:30	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 17:30	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 17:30	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*37 - 120*	*02/13/23 09:31*	*02/14/23 17:30*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*02/13/23 09:31*	*02/14/23 17:30*	*1*
p-Terphenyl-d14	*77*		*64 - 127*	*02/13/23 09:31*	*02/14/23 17:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:11	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-6S

Date Collected: 02/09/23 08:55
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-9

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 18:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 18:53	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 18:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 18:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/13/23 18:53*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/13/23 18:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/13/23 18:53*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 17:58	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 17:58	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 17:58	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 17:58	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 17:58	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 17:58	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:58	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 17:58	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 17:58	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 17:58	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*37 - 120*	*02/13/23 09:31*	*02/14/23 17:58*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*02/13/23 09:31*	*02/14/23 17:58*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*02/13/23 09:31*	*02/14/23 17:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:13	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-6D

Date Collected: 02/09/23 10:05
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-10

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 19:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 19:17	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 19:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 19:17*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*02/13/23 19:17*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*02/13/23 19:17*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/13/23 19:17*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 18:26	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 18:26	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 18:26	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 18:26	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 18:26	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 18:26	1
Fluorene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 18:26	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 18:26	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 18:26	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*37 - 120*	*02/13/23 09:31*	*02/14/23 18:26*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*02/13/23 09:31*	*02/14/23 18:26*	*1*
p-Terphenyl-d14	*103*		*64 - 127*	*02/13/23 09:31*	*02/14/23 18:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:16	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: TMW-1D

Date Collected: 02/09/23 11:35
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-11

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 19:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 19:42	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 19:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/13/23 19:42*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*02/13/23 19:42*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/13/23 19:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/13/23 19:42*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 18:53	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 18:53	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 18:53	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 18:53	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 18:53	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 18:53	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 18:53	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 18:53	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 18:53	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 18:53	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*02/13/23 09:31*	*02/14/23 18:53*	*1*
Nitrobenzene-d5 (Surr)	*78*		*26 - 120*	*02/13/23 09:31*	*02/14/23 18:53*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*02/13/23 09:31*	*02/14/23 18:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:19	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: TMW-2DR

Date Collected: 02/08/23 14:30
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-12

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 20:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 20:06	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 20:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 20:06*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*02/13/23 20:06*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/13/23 20:06*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/13/23 20:06*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 19:21	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 19:21	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 19:21	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 19:21	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 19:21	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 19:21	1
Fluorene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 19:21	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 19:21	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 19:21	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 19:21	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*122*	*S1+*	*37 - 120*	*02/13/23 09:31*	*02/14/23 19:21*	*1*
Nitrobenzene-d5 (Surr)	*96*		*26 - 120*	*02/13/23 09:31*	*02/14/23 19:21*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*02/13/23 09:31*	*02/14/23 19:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:21	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: TRIP BLANK
Date Collected: 02/09/23 00:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-13
Matrix: WQ

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 20:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 20:30	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 20:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 20:30*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/13/23 20:30*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/13/23 20:30*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/13/23 20:30*	*1*

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-206133-14

Date Collected: 02/08/23 15:00
Matrix: WQ
Date Received: 02/09/23 19:51

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 20:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 20:54	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 20:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 20:54*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*02/13/23 20:54*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*02/13/23 20:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/13/23 20:54*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 19:49	1
Acenaphthylene	ND		0.29	0.054	ug/L		02/13/23 09:31	02/14/23 19:49	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[g,h,i]perylene	ND		0.49	0.056	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 19:49	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 19:49	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 19:49	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 19:49	1
Fluorene	ND		0.49	0.056	ug/L		02/13/23 09:31	02/14/23 19:49	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 19:49	1
Naphthalene	ND		0.97	0.062	ug/L		02/13/23 09:31	02/14/23 19:49	1
Phenanthrene	ND		0.19	0.060	ug/L		02/13/23 09:31	02/14/23 19:49	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*120*		*37 - 120*	*02/13/23 09:31*	*02/14/23 19:49*	*1*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*02/13/23 09:31*	*02/14/23 19:49*	*1*
p-Terphenyl-d14	*117*		*64 - 127*	*02/13/23 09:31*	*02/14/23 19:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:24	1

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-206133-15

Date Collected: 02/08/23 15:10
Matrix: WQ
Date Received: 02/09/23 19:51

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 21:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 21:18	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 21:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*02/13/23 21:18*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*02/13/23 21:18*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*02/13/23 21:18*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/13/23 21:18*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 20:18	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 20:18	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 20:18	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 20:18	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 20:18	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 20:18	1
Fluorene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:18	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 20:18	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 20:18	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 20:18	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*02/13/23 09:31*	*02/14/23 20:18*	*1*
Nitrobenzene-d5 (Surr)	*81*		*26 - 120*	*02/13/23 09:31*	*02/14/23 20:18*	*1*
p-Terphenyl-d14	*111*		*64 - 127*	*02/13/23 09:31*	*02/14/23 20:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:27	1

Client Sample ID: DUP-20230208
Lab Sample ID: 480-206133-16

Date Collected: 02/08/23 00:00
Matrix: Water
Date Received: 02/09/23 19:51

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 21:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 21:42	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 21:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 21:42*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/13/23 21:42*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/13/23 21:42*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/13/23 21:42*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 20:46	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 20:46	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 20:46	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 20:46	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 20:46	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 20:46	1
Fluorene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 20:46	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 20:46	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 20:46	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*37 - 120*	*02/13/23 09:31*	*02/14/23 20:46*	*1*
Nitrobenzene-d5 (Surr)	*78*		*26 - 120*	*02/13/23 09:31*	*02/14/23 20:46*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*02/13/23 09:31*	*02/14/23 20:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	0.010	0.0041	mg/L			02/20/23 13:45	1

Surrogate Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-206133-1	PRMW-1S	102	92	105	98
480-206133-2	PRMW-2S	103	92	107	98
480-206133-3	PRMW-2D	103	113	107	116
480-206133-4	PRMW-3S	104	93	106	101
480-206133-4 MS	PRMW-3S MS	104	94	114	97
480-206133-4 MSD	PRMW-3S MSD	103	80	116	124 S1+
480-206133-5	PRMW-3D	105	94	108	99
480-206133-6	PRMW-4S	107	94	110	102
480-206133-7	PRMW-5S	103	96	106	100
480-206133-8	PRMW-5D	104	91	106	97
480-206133-9	PRMW-6S	105	95	110	102
480-206133-10	PRMW-6D	103	87	104	95
480-206133-11	TMW-1D	104	94	108	100
480-206133-12	TMW-2DR	105	88	110	99

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-206133-16	DUP-20230208	105	95	107	101
LCS 480-658551/8	Lab Control Sample	97	92	109	98
MB 480-658551/10	Method Blank	100	88	107	96

Surrogate Legend

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

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

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-206133-13	TRIP BLANK	105	95	108	100
480-206133-14	FIELD BLANK	105	87	109	98
480-206133-15	EQUIPMENT BLANK	101	91	103	97

Surrogate Legend

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

Surrogate Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

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

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
480-206133-1	PRMW-1S	95	71	93
480-206133-2	PRMW-2S	112	89	96
480-206133-3	PRMW-2D	90	72	79
480-206133-4	PRMW-3S	112	89	94
480-206133-4 MS	PRMW-3S MS	86	79	72
480-206133-4 MSD	PRMW-3S MSD	110	88	83
480-206133-5	PRMW-3D	111	90	95
480-206133-6	PRMW-4S	101	83	82
480-206133-7	PRMW-5S	99	70	79
480-206133-8	PRMW-5D	97	82	77
480-206133-9	PRMW-6S	110	83	93
480-206133-10	PRMW-6D	110	85	103
480-206133-11	TMW-1D	106	78	97
480-206133-12	TMW-2DR	122 S1+	96	99

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
480-206133-16	DUP-20230208	100	78	93
LCS 480-658543/2-A	Lab Control Sample	107	101	102
MB 480-658543/1-A	Method Blank	118	85	105

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14

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

Matrix: WQ

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
480-206133-14	FIELD BLANK	120	97	117
480-206133-15	EQUIPMENT BLANK	106	81	111

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-658551/10
Matrix: Water
Analysis Batch: 658551

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 14:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 14:25	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 14:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 14:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*02/13/23 14:25*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*02/13/23 14:25*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/13/23 14:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/13/23 14:25*	*1*

Lab Sample ID: LCS 480-658551/8
Matrix: Water
Analysis Batch: 658551

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			25.0	30.4		ug/L		122	71 - 124		
Ethylbenzene			25.0	26.7		ug/L		107	77 - 123		
Toluene			25.0	26.7		ug/L		107	80 - 122		
Xylenes, Total			50.0	55.0		ug/L		110	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 480-206133-4 MS
Matrix: Ground Water
Analysis Batch: 658551

Client Sample ID: PRMW-3S MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		25.0	30.0		ug/L		120	71 - 124		
Ethylbenzene	ND		25.0	25.3		ug/L		101	77 - 123		
Toluene	ND	F1 F2	25.0	25.5		ug/L		102	80 - 122		
Xylenes, Total	ND		50.0	51.6		ug/L		103	76 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*114*		*75 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: 480-206133-4 MSD
Matrix: Ground Water
Analysis Batch: 658551

Client Sample ID: PRMW-3S MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		25.0	30.3		ug/L		121	71 - 124	1	13
Ethylbenzene	ND		25.0	26.0		ug/L		104	77 - 123	3	15
Toluene	ND	F1 F2	25.0	31.9	F1 F2	ug/L		128	80 - 122	23	15
Xylenes, Total	ND		50.0	51.3		ug/L		103	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*80*		*73 - 120*
Dibromofluoromethane (Surr)	*116*		*75 - 123*
Toluene-d8 (Surr)	*124*	*S1+*	*80 - 120*

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

Lab Sample ID: MB 480-658543/1-A
Matrix: Water
Analysis Batch: 658626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 658543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 12:23	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 12:23	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 12:23	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 12:23	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 12:23	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 12:23	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 12:23	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 12:23	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 12:23	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 12:23	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 12:23	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 12:23	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 12:23	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 12:23	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 12:23	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*118*		*37 - 120*	*02/13/23 09:31*	*02/14/23 12:23*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*02/13/23 09:31*	*02/14/23 12:23*	*1*
p-Terphenyl-d14	*105*		*64 - 127*	*02/13/23 09:31*	*02/14/23 12:23*	*1*

Lab Sample ID: LCS 480-658543/2-A
Matrix: Water
Analysis Batch: 658626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	8.00	8.37		ug/L		105	62 - 120
Acenaphthylene	8.00	8.36		ug/L		105	57 - 120
Anthracene	8.00	8.90		ug/L		111	65 - 123

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

Lab Sample ID: LCS 480-658543/2-A
Matrix: Water
Analysis Batch: 658626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene	8.00	8.89		ug/L		111	77 - 123
Benzo[a]pyrene	8.00	8.82		ug/L		110	72 - 120
Benzo[b]fluoranthene	8.00	8.68		ug/L		109	73 - 123
Benzo[g,h,i]perylene	8.00	8.46		ug/L		106	48 - 150
Benzo[k]fluoranthene	8.00	8.73		ug/L		109	68 - 120
Chrysene	8.00	8.72		ug/L		109	75 - 120
Dibenz(a,h)anthracene	8.00	8.75		ug/L		109	54 - 147
Fluoranthene	8.00	8.62		ug/L		108	74 - 133
Fluorene	8.00	8.38		ug/L		105	64 - 120
Indeno[1,2,3-cd]pyrene	8.00	8.99		ug/L		112	55 - 150
Naphthalene	8.00	7.59		ug/L		95	40 - 138
Phenanthrene	8.00	9.01		ug/L		113	71 - 122
Pyrene	8.00	8.91		ug/L		111	65 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*107*		*37 - 120*
Nitrobenzene-d5 (Surr)	*101*		*26 - 120*
p-Terphenyl-d14	*102*		*64 - 127*

Lab Sample ID: 480-206133-4 MS
Matrix: Ground Water
Analysis Batch: 658626

Client Sample ID: PRMW-3S MS
Prep Type: Total/NA
Prep Batch: 658543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		7.80	6.39		ug/L		82	35 - 125
Acenaphthylene	ND		7.80	6.88		ug/L		88	43 - 141
Anthracene	ND		7.80	7.10		ug/L		91	65 - 123
Benzo[a]anthracene	ND		7.80	5.33		ug/L		68	68 - 132
Benzo[a]pyrene	ND		7.80	4.88		ug/L		63	60 - 137
Benzo[b]fluoranthene	ND		7.80	5.31		ug/L		68	68 - 129
Benzo[g,h,i]perylene	ND		7.80	5.32		ug/L		68	48 - 150
Benzo[k]fluoranthene	ND		7.80	5.05		ug/L		65	55 - 142
Chrysene	ND	F1	7.80	4.97	F1	ug/L		64	66 - 144
Dibenz(a,h)anthracene	ND		7.80	5.34		ug/L		68	54 - 138
Fluoranthene	ND		7.80	5.81		ug/L		74	63 - 146
Fluorene	ND	F2	7.80	6.86		ug/L		88	54 - 137
Indeno[1,2,3-cd]pyrene	ND		7.80	5.57		ug/L		71	55 - 140
Naphthalene	ND		7.80	6.01		ug/L		77	25 - 138
Phenanthrene	ND		7.80	7.26		ug/L		93	60 - 143
Pyrene	ND		7.80	6.41		ug/L		82	65 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*86*		*37 - 120*
Nitrobenzene-d5 (Surr)	*79*		*26 - 120*
p-Terphenyl-d14	*72*		*64 - 127*

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

Lab Sample ID: 480-206133-4 MSD
Matrix: Ground Water
Analysis Batch: 658626

Client Sample ID: PRMW-3S MSD
Prep Type: Total/NA
Prep Batch: 658543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		7.62	7.80		ug/L		102	35 - 125	20	24
Acenaphthylene	ND		7.62	8.20		ug/L		108	43 - 141	18	18
Anthracene	ND		7.62	8.03		ug/L		105	65 - 123	12	15
Benzo[a]anthracene	ND		7.62	5.32		ug/L		70	68 - 132	0	15
Benzo[a]pyrene	ND		7.62	5.47		ug/L		72	60 - 137	11	15
Benzo[b]fluoranthene	ND		7.62	5.32		ug/L		70	68 - 129	0	15
Benzo[g,h,i]perylene	ND		7.62	5.48		ug/L		72	48 - 150	3	15
Benzo[k]fluoranthene	ND		7.62	5.37		ug/L		70	55 - 142	6	22
Chrysene	ND	F1	7.62	5.18		ug/L		68	66 - 144	4	15
Dibenz(a,h)anthracene	ND		7.62	5.80		ug/L		76	54 - 138	8	15
Fluoranthene	ND		7.62	6.55		ug/L		86	63 - 146	12	15
Fluorene	ND	F2	7.62	8.45	F2	ug/L		111	54 - 137	21	15
Indeno[1,2,3-cd]pyrene	ND		7.62	5.71		ug/L		75	55 - 140	3	15
Naphthalene	ND		7.62	6.83		ug/L		90	25 - 138	13	29
Phenanthrene	ND		7.62	8.40		ug/L		110	60 - 143	15	15
Pyrene	ND		7.62	6.71		ug/L		88	65 - 139	5	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*110*		*37 - 120*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*
p-Terphenyl-d14	*83*		*64 - 127*

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-659311/47
Matrix: Water
Analysis Batch: 659311

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00680	J	0.010	0.0041	mg/L			02/20/23 12:24	1

Lab Sample ID: MB 480-659311/75
Matrix: Water
Analysis Batch: 659311

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0101		0.010	0.0041	mg/L			02/20/23 13:41	1

Lab Sample ID: HLCS 480-659311/22
Matrix: Water
Analysis Batch: 659311

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

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.397		mg/L		99	90 - 110		

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-659311/48
Matrix: Water
Analysis Batch: 659311

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.242		mg/L		97	90 - 110

Lab Sample ID: LCS 480-659311/76
Matrix: Water
Analysis Batch: 659311

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.240		mg/L		96	90 - 110

Lab Sample ID: 480-206133-1 MS
Matrix: Ground Water
Analysis Batch: 659311

Client Sample ID: PRMW-1S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	0.100	0.0879	F1	mg/L		88	90 - 110

Lab Sample ID: 480-206133-4 MS
Matrix: Ground Water
Analysis Batch: 659311

Client Sample ID: PRMW-3S MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND		0.100	0.0914		mg/L		91	90 - 110

Lab Sample ID: 480-206133-4 MSD
Matrix: Ground Water
Analysis Batch: 659311

Client Sample ID: PRMW-3S MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND		0.100	0.0928		mg/L		93	90 - 110	2	15

Lab Sample ID: 480-206133-16 MS
Matrix: Water
Analysis Batch: 659311

Client Sample ID: DUP-20230208
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	0.100	0.0880	F1	mg/L		88	90 - 110

Lab Sample ID: 480-206133-16 DU
Matrix: Water
Analysis Batch: 659311

Client Sample ID: DUP-20230208
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND	F1	ND		mg/L		NC	15

QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

GC/MS VOA

Analysis Batch: 658551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206133-1	PRMW-1S	Total/NA	Ground Water	8260C	
480-206133-2	PRMW-2S	Total/NA	Ground Water	8260C	
480-206133-3	PRMW-2D	Total/NA	Ground Water	8260C	
480-206133-4	PRMW-3S	Total/NA	Ground Water	8260C	
480-206133-5	PRMW-3D	Total/NA	Ground Water	8260C	
480-206133-6	PRMW-4S	Total/NA	Ground Water	8260C	
480-206133-7	PRMW-5S	Total/NA	Ground Water	8260C	
480-206133-8	PRMW-5D	Total/NA	Ground Water	8260C	
480-206133-9	PRMW-6S	Total/NA	Ground Water	8260C	
480-206133-10	PRMW-6D	Total/NA	Ground Water	8260C	
480-206133-11	TMW-1D	Total/NA	Ground Water	8260C	
480-206133-12	TMW-2DR	Total/NA	Ground Water	8260C	
480-206133-13	TRIP BLANK	Total/NA	WQ	8260C	
480-206133-14	FIELD BLANK	Total/NA	WQ	8260C	
480-206133-15	EQUIPMENT BLANK	Total/NA	WQ	8260C	
480-206133-16	DUP-20230208	Total/NA	Water	8260C	
MB 480-658551/10	Method Blank	Total/NA	Water	8260C	
LCS 480-658551/8	Lab Control Sample	Total/NA	Water	8260C	
480-206133-4 MS	PRMW-3S MS	Total/NA	Ground Water	8260C	
480-206133-4 MSD	PRMW-3S MSD	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 658543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206133-1	PRMW-1S	Total/NA	Ground Water	3510C	
480-206133-2	PRMW-2S	Total/NA	Ground Water	3510C	
480-206133-3	PRMW-2D	Total/NA	Ground Water	3510C	
480-206133-4	PRMW-3S	Total/NA	Ground Water	3510C	
480-206133-5	PRMW-3D	Total/NA	Ground Water	3510C	
480-206133-6	PRMW-4S	Total/NA	Ground Water	3510C	
480-206133-7	PRMW-5S	Total/NA	Ground Water	3510C	
480-206133-8	PRMW-5D	Total/NA	Ground Water	3510C	
480-206133-9	PRMW-6S	Total/NA	Ground Water	3510C	
480-206133-10	PRMW-6D	Total/NA	Ground Water	3510C	
480-206133-11	TMW-1D	Total/NA	Ground Water	3510C	
480-206133-12	TMW-2DR	Total/NA	Ground Water	3510C	
480-206133-14	FIELD BLANK	Total/NA	WQ	3510C	
480-206133-15	EQUIPMENT BLANK	Total/NA	WQ	3510C	
480-206133-16	DUP-20230208	Total/NA	Water	3510C	
MB 480-658543/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-658543/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-206133-4 MS	PRMW-3S MS	Total/NA	Ground Water	3510C	
480-206133-4 MSD	PRMW-3S MSD	Total/NA	Ground Water	3510C	

Analysis Batch: 658626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206133-1	PRMW-1S	Total/NA	Ground Water	8270D LL	658543
480-206133-2	PRMW-2S	Total/NA	Ground Water	8270D LL	658543
480-206133-3	PRMW-2D	Total/NA	Ground Water	8270D LL	658543
480-206133-4	PRMW-3S	Total/NA	Ground Water	8270D LL	658543

GC/MS Semi VOA (Continued)

Analysis Batch: 658626 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206133-5	PRMW-3D	Total/NA	Ground Water	8270D LL	658543
480-206133-6	PRMW-4S	Total/NA	Ground Water	8270D LL	658543
480-206133-7	PRMW-5S	Total/NA	Ground Water	8270D LL	658543
480-206133-8	PRMW-5D	Total/NA	Ground Water	8270D LL	658543
480-206133-9	PRMW-6S	Total/NA	Ground Water	8270D LL	658543
480-206133-10	PRMW-6D	Total/NA	Ground Water	8270D LL	658543
480-206133-11	TMW-1D	Total/NA	Ground Water	8270D LL	658543
480-206133-12	TMW-2DR	Total/NA	Ground Water	8270D LL	658543
480-206133-14	FIELD BLANK	Total/NA	WQ	8270D LL	658543
480-206133-15	EQUIPMENT BLANK	Total/NA	WQ	8270D LL	658543
480-206133-16	DUP-20230208	Total/NA	Water	8270D LL	658543
MB 480-658543/1-A	Method Blank	Total/NA	Water	8270D LL	658543
LCS 480-658543/2-A	Lab Control Sample	Total/NA	Water	8270D LL	658543
480-206133-4 MS	PRMW-3S MS	Total/NA	Ground Water	8270D LL	658543
480-206133-4 MSD	PRMW-3S MSD	Total/NA	Ground Water	8270D LL	658543

General Chemistry

Analysis Batch: 659311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-206133-1	PRMW-1S	Total/NA	Ground Water	9012B	
480-206133-2	PRMW-2S	Total/NA	Ground Water	9012B	
480-206133-3	PRMW-2D	Total/NA	Ground Water	9012B	
480-206133-4	PRMW-3S	Total/NA	Ground Water	9012B	
480-206133-5	PRMW-3D	Total/NA	Ground Water	9012B	
480-206133-6	PRMW-4S	Total/NA	Ground Water	9012B	
480-206133-7	PRMW-5S	Total/NA	Ground Water	9012B	
480-206133-8	PRMW-5D	Total/NA	Ground Water	9012B	
480-206133-9	PRMW-6S	Total/NA	Ground Water	9012B	
480-206133-10	PRMW-6D	Total/NA	Ground Water	9012B	
480-206133-11	TMW-1D	Total/NA	Ground Water	9012B	
480-206133-12	TMW-2DR	Total/NA	Ground Water	9012B	
480-206133-14	FIELD BLANK	Total/NA	WQ	9012B	
480-206133-15	EQUIPMENT BLANK	Total/NA	WQ	9012B	
480-206133-16	DUP-20230208	Total/NA	Water	9012B	
MB 480-659311/47	Method Blank	Total/NA	Water	9012B	
MB 480-659311/75	Method Blank	Total/NA	Water	9012B	
HLCS 480-659311/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-659311/48	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-659311/76	Lab Control Sample	Total/NA	Water	9012B	
480-206133-1 MS	PRMW-1S	Total/NA	Ground Water	9012B	
480-206133-4 MS	PRMW-3S MS	Total/NA	Ground Water	9012B	
480-206133-4 MSD	PRMW-3S MSD	Total/NA	Ground Water	9012B	
480-206133-16 MS	DUP-20230208	Total/NA	Water	9012B	
480-206133-16 DU	DUP-20230208	Total/NA	Water	9012B	

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-1S
Date Collected: 02/08/23 15:10
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 15:40
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 14:43
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 12:32

Client Sample ID: PRMW-2S
Date Collected: 02/08/23 13:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 16:05
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 15:11
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 12:37

Client Sample ID: PRMW-2D
Date Collected: 02/08/23 11:15
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 16:29
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 15:38
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 12:40

Client Sample ID: PRMW-3S
Date Collected: 02/08/23 11:10
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 16:53
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 14:15
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:01

Client Sample ID: PRMW-3D
Date Collected: 02/08/23 12:50
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 17:17
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 16:06
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 12:42

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-4S
Date Collected: 02/09/23 09:20
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 17:41
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 16:34
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 12:45

Client Sample ID: PRMW-5S
Date Collected: 02/09/23 11:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 18:05
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		5	658626	JMM	EET BUF	02/14/23 17:02
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 12:48

Client Sample ID: PRMW-5D
Date Collected: 02/09/23 13:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 18:29
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 17:30
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:11

Client Sample ID: PRMW-6S
Date Collected: 02/09/23 08:55
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 18:53
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 17:58
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:13

Client Sample ID: PRMW-6D
Date Collected: 02/09/23 10:05
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-10
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 19:17
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 18:26
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:16

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: TMW-1D
Date Collected: 02/09/23 11:35
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-11
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 19:42
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 18:53
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:19

Client Sample ID: TMW-2DR
Date Collected: 02/08/23 14:30
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-12
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 20:06
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 19:21
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:21

Client Sample ID: TRIP BLANK
Date Collected: 02/09/23 00:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-13
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 20:30

Client Sample ID: FIELD BLANK
Date Collected: 02/08/23 15:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-14
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 20:54
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 19:49
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:24

Client Sample ID: EQUIPMENT BLANK
Date Collected: 02/08/23 15:10
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-15
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 21:18
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 20:18
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:27

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-206133-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: DUP-20230208
Lab Sample ID: 480-206133-16

Date Collected: 02/08/23 00:00
Matrix: Water

Date Received: 02/09/23 19:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	658551	CB	EET BUF	02/13/23 21:42
Total/NA	Prep	3510C			658543	MS	EET BUF	02/13/23 09:31
Total/NA	Analysis	8270D LL		1	658626	JMM	EET BUF	02/14/23 20:46
Total/NA	Analysis	9012B		1	659311	CLT	EET BUF	02/20/23 13:45

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State Electric & Gas
Job ID: 480-206133-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

Method Summary

Client: New York State Electric & Gas
Job ID: 480-206133-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State Electric & Gas
Job ID: 480-206133-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-206133-1	PRMW-1S	Ground Water	02/08/23 15:10	02/09/23 19:51
480-206133-2	PRMW-2S	Ground Water	02/08/23 13:00	02/09/23 19:51
480-206133-3	PRMW-2D	Ground Water	02/08/23 11:15	02/09/23 19:51
480-206133-4	PRMW-3S	Ground Water	02/08/23 11:10	02/09/23 19:51
480-206133-5	PRMW-3D	Ground Water	02/08/23 12:50	02/09/23 19:51
480-206133-6	PRMW-4S	Ground Water	02/09/23 09:20	02/09/23 19:51
480-206133-7	PRMW-5S	Ground Water	02/09/23 11:00	02/09/23 19:51
480-206133-8	PRMW-5D	Ground Water	02/09/23 13:00	02/09/23 19:51
480-206133-9	PRMW-6S	Ground Water	02/09/23 08:55	02/09/23 19:51
480-206133-10	PRMW-6D	Ground Water	02/09/23 10:05	02/09/23 19:51
480-206133-11	TMW-1D	Ground Water	02/09/23 11:35	02/09/23 19:51
480-206133-12	TMW-2DR	Ground Water	02/08/23 14:30	02/09/23 19:51
480-206133-13	TRIP BLANK	WQ	02/09/23 00:00	02/09/23 19:51
480-206133-14	FIELD BLANK	WQ	02/08/23 15:00	02/09/23 19:51
480-206133-15	EQUIPMENT BLANK	WQ	02/08/23 15:10	02/09/23 19:51
480-206133-16	DUP-20230208	Water	02/08/23 00:00	02/09/23 19:51

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Kaitlyn F & Bailey K	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-181644-36782.1
Client Contact: Mr. Tracy Blazicek	Phone: 619-727-1921	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: PO BOX 5224	Due Date Requested:			
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4505830753			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, ⁻ Dodecahydrate, one, A, -5, ia, (specify)

480-206133 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Num	Special Instructions/Note:
			Preservation Code:				A	N	B		
PRMW-1S	2/8/23	1510	G	Water	N	N	X	X	X	6	
PRMW-2S	2/8/23	1300	G	Water	N	N	X	X	X	6	
PRMW-2D	2/8/23	1115	G	Water	N	N	X	X	X	6	
PRMW-3S	2/8/23	1110	G	Water	N	Y	X	X	X	24	* ms/msd
PRMW-3D	2/8/23	1250	G	Water	N	N	X	X	X	6	
PRMW-4S	2/9/23	0920	G	Water	N	N	X	X	X	6	
PRMW-5S	2/9/23	1100	G	Water	N	N	X	X	X	6	
PRMW-5D	2/9/23	1300	G	Water	N	N	X	X	X	6	
PRMW-6S	2/9/23	0855	G	Water	N	N	X	X	X	6	
PRMW-6D	2/9/23	1005	G	Water	N	N	X	X	X	6	
TMW-1D	2/9/23	1135	G	Water	N	N	X	X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Kaitlyn Fleming	2/9/23 1500	Arcadis	LC	2/9/23 1915	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.0, 4.5, 5.8, 4.5, 4.4 # 1 ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Kaitlyn F & Bailey K	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-181644-36782.2
Client Contact: Mr. Tracy Blazicek	Phone: 619-727-1921	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: PO BOX 5224	Due Date Requested:			
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4505830753			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	B		
TMW-2DR	2/8/23	1430	G	Water	N	N	X	X	X	6	
DUP-20230208	2/8/23	—	G	Water	N	N	X	X	X	6	
				Water							
				Water							
				Water							
TRIP BLANK	2/8/23	—	—	Water			X			2	
TRIP BLANK		—	—	Water			X			2	
FIELD BLANK	2/8/23	1500	G	Water	N	N	X	X	X	6	
EQUIPMENT BLANK	2/8/23	1510	G	Water	N	N	X	X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Kaitlyn Flang	2/9/23 1500	Arcadis	LC	2/9/23 19:51	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-206133-1

Login Number: 206133
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Attachment 3

Data Usability Summary Report

NYSEG Penn Yan
Former MGP Site

Data Usability Summary Report

Penn Yan, New York

Volatile Organic Compound (VOC), Semi-volatile Organic Compound (SVOC), and Cyanide Analyses

SDG # 480-206133-1

Analyses Performed By:
Eurofins Buffalo
Amherst, New York

Report # 49108R
Review Level: Tier III
Project: 30126623.2

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-206133-1 for samples collected in association with the NYSEG Penn Yan Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					VOC	SVOC	CYANIDE
PRMW-1S	480-206133-1	Water	2/8/2023		X	X	X
PRMW-2S	480-206133-2	Water	2/8/2023		X	X	X
PRMW-2D	480-206133-3	Water	2/8/2023		X	X	X
PRMW-3S	480-206133-4	Water	2/8/2023		X	X	X
PRMW-3D	480-206133-5	Water	2/8/2023		X	X	X
PRMW-4S	480-206133-6	Water	2/9/2023		X	X	X
PRMW-5S	480-206133-7	Water	2/9/2023		X	X	X
PRMW-5D	480-206133-8	Water	2/9/2023		X	X	X
PRMW-6S	480-206133-9	Water	2/9/2023		X	X	X
PRMW-6D	480-206133-10	Water	2/9/2023		X	X	X
TMW-1D	480-206133-11	Water	2/9/2023		X	X	X
TMW-2DR	480-206133-12	Water	2/8/2023		X	X	X
TRIP BLANK	480-206133-13	Water	2/9/2023		X		
FIELD BLANK	480-206133-14	Water	2/8/2023		X	X	X
EQUIPMENT BLANK	480-206133-15	Water	2/8/2023		X	X	X
DUP-20230208	480-206133-16	Water	2/8/2023	PRMW-3S	X	X	X

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi-volatile Organic Compounds

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound is considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u. with hydrochloric acid.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs with the exceptions noted in the table below. Qualification of sample results were also applied to sample DUP-20230208 which is the duplicate sample of PRMW-3S.

Sample ID	Compound	MS Recovery	MSD Recovery
PRMW-3S	Toluene	AC	>UL

Note:

AC Acceptable

UL Upper control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

The MS/MSD analysis performed on sample PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs with the exceptions noted in the table below.

Sample ID	Compound
PRMW-3S	Toluene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
PRMW-3S / DUP-20220804	All target compounds	U	U	AC

Note:
U = Non detect
AC = Acceptable

The calculated differences between the parent and field duplicate sample were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks/Field Blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration %Ds		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:
%RSD = Relative standard deviation
%R = Percent recovery
RPD = Relative percent difference
%D = Percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs with the exceptions noted in the table below. Qualification of sample results were also applied to sample DUP-20230208 which is the duplicate sample of PRMW-3S.

Sample ID	Compound	MS Recovery	MSD Recovery
PRMW-3S	Chrysene	<LL but >10%	AC

Note:

AC Acceptable

LL Lower control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

The MS/MSD analysis performed on sample PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs with the exceptions noted in the table below.

Sample ID	Compound
PRMW-3S	Fluorene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
PRMW-3S / DUP-20230208	All target compounds	U	U	AC

Note:
U = Non detect
AC = Acceptable

The calculated differences between the parent and field duplicate sample were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks/Field blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration %Ds		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

SVOCs: SW-846 8270D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency USEPA Method 9012B. Data were reviewed in accordance with USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540-R-04-004, October 2004), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Cyanide by SW-846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12 with NaOH.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Cyanide associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following samples were qualified as listed in the following table.

Sample ID	Analyte	Sample Result	Qualification
PRMW-5S	Cyanide (MB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration

Note:
MB = method blank
RL = reporting limit

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument’s continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed on samples PRMW-3S, PRMW-1S and DUP-20230208. The MS/MSD analysis exhibited acceptable recoveries and RPDs.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

Laboratory duplicate analysis was performed on sample DUP-20230208. The laboratory duplicate analysis exhibited an acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD
PRMW-3S / DUP-20230208	Cyanide	U	U	AC

Note:
U = Non detect
AC = Acceptable

The calculated differences between the parent and field duplicate sample were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SW-846 9012B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X	X		
C. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:
%R Percent recovery
RPD Relative percent difference

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]			Noncompliance
					VOC	SVOC	CYANIDE	
480-206133-1	2/8/2023	SW846	PRMW-1S	Water	Yes	Yes	Yes	--
	2/8/2023	SW846	PRMW-2S	Water	Yes	Yes	Yes	--
	2/8/2023	SW846	PRMW-2D	Water	Yes	Yes	Yes	--
	2/8/2023	SW846	PRMW-3S	Water	No	No	Yes	VOC - MSD %Recovery RPD SVOC - MS %Recovery RPD
	2/8/2023	SW846	PRMW-3D	Water	Yes	Yes	Yes	--
	2/9/2023	SW846	PRMW-4S	Water	Yes	Yes	Yes	--
	2/9/2023	SW846	PRMW-5S	Water	Yes	Yes	No	Cyanide – Blank contamination
	2/9/2023	SW846	PRMW-5D	Water	Yes	Yes	Yes	--
	2/9/2023	SW846	PRMW-6S	Water	Yes	Yes	Yes	--
	2/9/2023	SW846	PRMW-6D	Water	Yes	Yes	Yes	--
	2/9/2023	SW846	TMW-1D	Water	Yes	Yes	Yes	--
	2/8/2023	SW846	TMW-2DR	Water	Yes	Yes	Yes	--
	2/9/2023	SW846	TRIP BLANK	Water	Yes	--	--	--
	2/8/2023	SW846	FIELD BLANK	Water	Yes	Yes	Yes	--
	2/8/2023	SW846	EQUIPMENT BLANK	Water	Yes	Yes	Yes	--
	2/8/2023	SW846	DUP-20230208	Water	No	No	Yes	VOC - MSD %Recovery RPD SVOC - MS %Recovery RPD

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant, or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE: 

DATE: March 24, 2023

PEER REVIEW: Joe Houser

DATE: March 24, 2023

Chain of Custody Corrected Sample Analysis Data Sheets

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Kaitlyn F & Bailey K	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-181644-36782.1
Client Contact: Mr. Tracy Blazicek	Phone: 619-727-1921	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: PO BOX 5224	Due Date Requested:	Analysis Requested		
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4505830753			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: New York	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, Dodecahydrate, one, A, -5, ia, (specify)

480-206133 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Num	Special Instructions/Note:
			Preservation Code:				A	N	B		
PRMW-1S	2/8/23	1510	G	Water	N	N	X	X	X	6	
PRMW-2S	2/8/23	1300	G	Water	N	N	X	X	X	6	
PRMW-2D	2/8/23	1115	G	Water	N	N	X	X	X	6	
PRMW-3S	2/8/23	1110	G	Water	N	Y	X	X	X	24	* ms/msd
PRMW-3D	2/8/23	1250	G	Water	N	N	X	X	X	6	
PRMW-4S	2/9/23	0920	G	Water	N	N	X	X	X	6	
PRMW-5S	2/9/23	1100	G	Water	N	N	X	X	X	6	
PRMW-5D	2/9/23	1300	G	Water	N	N	X	X	X	6	
PRMW-6S	2/9/23	0855	G	Water	N	N	X	X	X	6	
PRMW-6D	2/9/23	1005	G	Water	N	N	X	X	X	6	
TMW-1D	2/9/23	1135	G	Water	N	N	X	X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Kaitlyn Fleming	Date/Time: 2/9/23 1500	Company: Arcadis	Received by: LC	Date/Time: 2/9/23 1915	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.0, 4.5, 5.8, 4.5, 4.4 # 1 ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Kaitlyn F & Bailey K	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-181644-36782.2
Client Contact: Mr. Tracy Blazicek	Phone: 619-727-1921	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: PO BOX 5224	Due Date Requested:			
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4505830753			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	B		
TMW-2DR	2/8/23	1430	G	Water	N	N	X	X	X	6	
DUP-20230208	2/8/23	—	G	Water	N	N	X	X	X	6	
				Water							
				Water							
				Water							
TRIP BLANK		—	—	Water			X			2	
TRIP BLANK		—	—	Water			X			2	
FIELD BLANK	2/8/23	1500	G	Water	N	N	X	X	X	6	
EQUIPMENT BLANK	2/8/23	1510	G	Water	N	N	X	X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Kaitlyn Flury	Date/Time: 2/9/23 1500	Company: Arcadis	Received by: LC	Date/Time: 2/9/23 19:51	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-1S

Date Collected: 02/08/23 15:10
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-1

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 15:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 15:40	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 15:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/13/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*02/13/23 15:40*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/13/23 15:40*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/13/23 15:40*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		02/13/23 09:31	02/14/23 14:43	1
Acenaphthylene	ND		0.29	0.053	ug/L		02/13/23 09:31	02/14/23 14:43	1
Anthracene	ND		0.48	0.032	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 14:43	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		02/13/23 09:31	02/14/23 14:43	1
Chrysene	ND		0.48	0.070	ug/L		02/13/23 09:31	02/14/23 14:43	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		02/13/23 09:31	02/14/23 14:43	1
Fluoranthene	ND		0.48	0.076	ug/L		02/13/23 09:31	02/14/23 14:43	1
Fluorene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 14:43	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		02/13/23 09:31	02/14/23 14:43	1
Naphthalene	ND		0.95	0.061	ug/L		02/13/23 09:31	02/14/23 14:43	1
Phenanthrene	ND		0.19	0.059	ug/L		02/13/23 09:31	02/14/23 14:43	1
Pyrene	ND		0.48	0.072	ug/L		02/13/23 09:31	02/14/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*02/13/23 09:31*	*02/14/23 14:43*	*1*
Nitrobenzene-d5 (Surr)	*71*		*26 - 120*	*02/13/23 09:31*	*02/14/23 14:43*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*02/13/23 09:31*	*02/14/23 14:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	~~F1~~	0.010	0.0041	mg/L			02/20/23 12:32	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-2S

Date Collected: 02/08/23 13:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-2

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 16:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 16:05	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 16:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 16:05*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*02/13/23 16:05*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/13/23 16:05*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/13/23 16:05*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		02/13/23 09:31	02/14/23 15:11	1
Acenaphthylene	ND		0.29	0.053	ug/L		02/13/23 09:31	02/14/23 15:11	1
Anthracene	ND		0.48	0.032	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 15:11	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		02/13/23 09:31	02/14/23 15:11	1
Chrysene	ND		0.48	0.070	ug/L		02/13/23 09:31	02/14/23 15:11	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		02/13/23 09:31	02/14/23 15:11	1
Fluoranthene	ND		0.48	0.076	ug/L		02/13/23 09:31	02/14/23 15:11	1
Fluorene	ND		0.48	0.055	ug/L		02/13/23 09:31	02/14/23 15:11	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		02/13/23 09:31	02/14/23 15:11	1
Naphthalene	ND		0.95	0.061	ug/L		02/13/23 09:31	02/14/23 15:11	1
Phenanthrene	ND		0.19	0.059	ug/L		02/13/23 09:31	02/14/23 15:11	1
Pyrene	ND		0.48	0.072	ug/L		02/13/23 09:31	02/14/23 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*112*		*37 - 120*	*02/13/23 09:31*	*02/14/23 15:11*	*1*
Nitrobenzene-d5 (Surr)	*89*		*26 - 120*	*02/13/23 09:31*	*02/14/23 15:11*	*1*
p-Terphenyl-d14	*96*		*64 - 127*	*02/13/23 09:31*	*02/14/23 15:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.078**	~~B~~	0.010	0.0041	mg/L			02/20/23 12:37	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-2D

Date Collected: 02/08/23 11:15
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-3

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 16:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 16:29	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 16:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 16:29*	*1*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*02/13/23 16:29*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/13/23 16:29*	*1*
Toluene-d8 (Surr)	*116*		*80 - 120*		*02/13/23 16:29*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/13/23 09:31	02/14/23 15:38	1
Acenaphthylene	ND		0.32	0.059	ug/L		02/13/23 09:31	02/14/23 15:38	1
Anthracene	ND		0.53	0.036	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		02/13/23 09:31	02/14/23 15:38	1
Benzo[k]fluoranthene	ND		0.32	0.074	ug/L		02/13/23 09:31	02/14/23 15:38	1
Chrysene	ND		0.53	0.078	ug/L		02/13/23 09:31	02/14/23 15:38	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/13/23 09:31	02/14/23 15:38	1
Fluoranthene	ND		0.53	0.084	ug/L		02/13/23 09:31	02/14/23 15:38	1
Fluorene	ND		0.53	0.061	ug/L		02/13/23 09:31	02/14/23 15:38	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		02/13/23 09:31	02/14/23 15:38	1
Naphthalene	ND		1.1	0.067	ug/L		02/13/23 09:31	02/14/23 15:38	1
Phenanthrene	ND		0.21	0.065	ug/L		02/13/23 09:31	02/14/23 15:38	1
Pyrene	ND		0.53	0.080	ug/L		02/13/23 09:31	02/14/23 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*37 - 120*	*02/13/23 09:31*	*02/14/23 15:38*	*1*
Nitrobenzene-d5 (Surr)	*72*		*26 - 120*	*02/13/23 09:31*	*02/14/23 15:38*	*1*
p-Terphenyl-d14	*79*		*64 - 127*	*02/13/23 09:31*	*02/14/23 15:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 12:40	1

Client Sample ID: PRMW-3S
Lab Sample ID: 480-206133-4

Date Collected: 02/08/23 11:10
Matrix: Ground Water

Date Received: 02/09/23 19:51

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 16:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 16:53	1
Toluene	ND	~~F1 F2~~ UJ	1.0	0.51	ug/L			02/13/23 16:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/13/23 16:53*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*02/13/23 16:53*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/13/23 16:53*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/13/23 16:53*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 14:15	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 14:15	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 14:15	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 14:15	1
Chrysene	ND	~~F1~~ UJ	0.49	0.072	ug/L		02/13/23 09:31	02/14/23 14:15	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 14:15	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 14:15	1
Fluorene	ND	~~F2~~ UJ	0.49	0.057	ug/L		02/13/23 09:31	02/14/23 14:15	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 14:15	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 14:15	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 14:15	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*112*		*37 - 120*	*02/13/23 09:31*	*02/14/23 14:15*	*1*
Nitrobenzene-d5 (Surr)	*89*		*26 - 120*	*02/13/23 09:31*	*02/14/23 14:15*	*1*
p-Terphenyl-d14	*94*		*64 - 127*	*02/13/23 09:31*	*02/14/23 14:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:01	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-3D

Date Collected: 02/08/23 12:50
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-5

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 17:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 17:17	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 17:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 17:17*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*02/13/23 17:17*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/13/23 17:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/13/23 17:17*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 16:06	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 16:06	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:06	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 16:06	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 16:06	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 16:06	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 16:06	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:06	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 16:06	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 16:06	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 16:06	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*111*		*37 - 120*	*02/13/23 09:31*	*02/14/23 16:06*	*1*
Nitrobenzene-d5 (Surr)	*90*		*26 - 120*	*02/13/23 09:31*	*02/14/23 16:06*	*1*
p-Terphenyl-d14	*95*		*64 - 127*	*02/13/23 09:31*	*02/14/23 16:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 12:42	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-4S

Date Collected: 02/09/23 09:20
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-6

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 17:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 17:41	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 17:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*02/13/23 17:41*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*02/13/23 17:41*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/13/23 17:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/13/23 17:41*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 16:34	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 16:34	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:34	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 16:34	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 16:34	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 16:34	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 16:34	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 16:34	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 16:34	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 16:34	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 16:34	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*37 - 120*	*02/13/23 09:31*	*02/14/23 16:34*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*02/13/23 09:31*	*02/14/23 16:34*	*1*
p-Terphenyl-d14	*82*		*64 - 127*	*02/13/23 09:31*	*02/14/23 16:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 12:45	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-5S

Date Collected: 02/09/23 11:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-7

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.6**		1.0	0.41	ug/L			02/13/23 18:05	1
Ethylbenzene	**2.0**		1.0	0.74	ug/L			02/13/23 18:05	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 18:05	1
Xylenes, Total	**1.3**	**J**	2.0	0.66	ug/L			02/13/23 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 18:05*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*02/13/23 18:05*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/13/23 18:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/13/23 18:05*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**16**		2.5	0.18	ug/L		02/13/23 09:31	02/14/23 17:02	5
Acenaphthylene	**2.6**		1.5	0.28	ug/L		02/13/23 09:31	02/14/23 17:02	5
Anthracene	ND		2.5	0.17	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[a]anthracene	ND		1.5	0.17	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[a]pyrene	ND		0.90	0.65	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[b]fluoranthene	ND		1.5	0.32	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[g,h,i]perylene	ND		2.5	0.29	ug/L		02/13/23 09:31	02/14/23 17:02	5
Benzo[k]fluoranthene	ND		1.5	0.35	ug/L		02/13/23 09:31	02/14/23 17:02	5
Chrysene	ND		2.5	0.37	ug/L		02/13/23 09:31	02/14/23 17:02	5
Dibenz(a,h)anthracene	ND		2.5	0.35	ug/L		02/13/23 09:31	02/14/23 17:02	5
Fluoranthene	**1.3**	**J**	2.5	0.40	ug/L		02/13/23 09:31	02/14/23 17:02	5
Fluorene	**6.3**		2.5	0.29	ug/L		02/13/23 09:31	02/14/23 17:02	5
Indeno[1,2,3-cd]pyrene	ND		2.5	0.55	ug/L		02/13/23 09:31	02/14/23 17:02	5
Naphthalene	**13**		5.0	0.32	ug/L		02/13/23 09:31	02/14/23 17:02	5
Phenanthrene	**2.4**		1.0	0.31	ug/L		02/13/23 09:31	02/14/23 17:02	5
Pyrene	**0.95**	**J**	2.5	0.38	ug/L		02/13/23 09:31	02/14/23 17:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*37 - 120*	*02/13/23 09:31*	*02/14/23 17:02*	*5*
Nitrobenzene-d5 (Surr)	*70*		*26 - 120*	*02/13/23 09:31*	*02/14/23 17:02*	*5*
p-Terphenyl-d14	*79*		*64 - 127*	*02/13/23 09:31*	*02/14/23 17:02*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.041**	~~**B**~~ UB	0.010	0.0041	mg/L			02/20/23 12:48	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-5D

Date Collected: 02/09/23 13:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-8

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 18:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 18:29	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 18:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/13/23 18:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*02/13/23 18:29*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/13/23 18:29*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/13/23 18:29*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 17:30	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 17:30	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:30	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 17:30	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 17:30	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 17:30	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 17:30	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:30	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 17:30	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 17:30	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 17:30	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*37 - 120*	*02/13/23 09:31*	*02/14/23 17:30*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*02/13/23 09:31*	*02/14/23 17:30*	*1*
p-Terphenyl-d14	*77*		*64 - 127*	*02/13/23 09:31*	*02/14/23 17:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:11	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-6S

Date Collected: 02/09/23 08:55
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-9

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 18:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 18:53	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 18:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 18:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/13/23 18:53*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/13/23 18:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/13/23 18:53*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 17:58	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 17:58	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:58	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 17:58	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 17:58	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 17:58	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 17:58	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 17:58	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 17:58	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 17:58	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 17:58	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*37 - 120*	*02/13/23 09:31*	*02/14/23 17:58*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*02/13/23 09:31*	*02/14/23 17:58*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*02/13/23 09:31*	*02/14/23 17:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:13	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: PRMW-6D

Date Collected: 02/09/23 10:05
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-10

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 19:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 19:17	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 19:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/13/23 19:17*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*02/13/23 19:17*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*02/13/23 19:17*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/13/23 19:17*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 18:26	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 18:26	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 18:26	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 18:26	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 18:26	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 18:26	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 18:26	1
Fluorene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 18:26	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 18:26	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 18:26	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*37 - 120*	*02/13/23 09:31*	*02/14/23 18:26*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*02/13/23 09:31*	*02/14/23 18:26*	*1*
p-Terphenyl-d14	*103*		*64 - 127*	*02/13/23 09:31*	*02/14/23 18:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:16	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: TMW-1D

Date Collected: 02/09/23 11:35
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-11

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 19:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 19:42	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 19:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/13/23 19:42*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*02/13/23 19:42*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/13/23 19:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/13/23 19:42*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/13/23 09:31	02/14/23 18:53	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/13/23 09:31	02/14/23 18:53	1
Anthracene	ND		0.50	0.034	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 18:53	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/13/23 09:31	02/14/23 18:53	1
Chrysene	ND		0.50	0.074	ug/L		02/13/23 09:31	02/14/23 18:53	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/13/23 09:31	02/14/23 18:53	1
Fluoranthene	ND		0.50	0.080	ug/L		02/13/23 09:31	02/14/23 18:53	1
Fluorene	ND		0.50	0.058	ug/L		02/13/23 09:31	02/14/23 18:53	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/13/23 09:31	02/14/23 18:53	1
Naphthalene	ND		1.0	0.064	ug/L		02/13/23 09:31	02/14/23 18:53	1
Phenanthrene	ND		0.20	0.062	ug/L		02/13/23 09:31	02/14/23 18:53	1
Pyrene	ND		0.50	0.076	ug/L		02/13/23 09:31	02/14/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*02/13/23 09:31*	*02/14/23 18:53*	*1*
Nitrobenzene-d5 (Surr)	*78*		*26 - 120*	*02/13/23 09:31*	*02/14/23 18:53*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*02/13/23 09:31*	*02/14/23 18:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:19	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: TMW-2DR

Date Collected: 02/08/23 14:30
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-12

Matrix: Ground Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 20:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 20:06	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 20:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 20:06*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*02/13/23 20:06*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/13/23 20:06*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/13/23 20:06*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 19:21	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 19:21	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 19:21	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 19:21	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 19:21	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 19:21	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 19:21	1
Fluorene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 19:21	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 19:21	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 19:21	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 19:21	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*122*	*S1+*	*37 - 120*	*02/13/23 09:31*	*02/14/23 19:21*	*1*
Nitrobenzene-d5 (Surr)	*96*		*26 - 120*	*02/13/23 09:31*	*02/14/23 19:21*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*02/13/23 09:31*	*02/14/23 19:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:21	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-206133-1

Client Sample ID: TRIP BLANK
Date Collected: 02/09/23 00:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-13
Matrix: WQ

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 20:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 20:30	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 20:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 20:30*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/13/23 20:30*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/13/23 20:30*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/13/23 20:30*	*1*

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-206133-14

Date Collected: 02/08/23 15:00
Matrix: WQ
Date Received: 02/09/23 19:51

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 20:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 20:54	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 20:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 20:54*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*02/13/23 20:54*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*02/13/23 20:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/13/23 20:54*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 19:49	1
Acenaphthylene	ND		0.29	0.054	ug/L		02/13/23 09:31	02/14/23 19:49	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[g,h,i]perylene	ND		0.49	0.056	ug/L		02/13/23 09:31	02/14/23 19:49	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 19:49	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 19:49	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 19:49	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 19:49	1
Fluorene	ND		0.49	0.056	ug/L		02/13/23 09:31	02/14/23 19:49	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 19:49	1
Naphthalene	ND		0.97	0.062	ug/L		02/13/23 09:31	02/14/23 19:49	1
Phenanthrene	ND		0.19	0.060	ug/L		02/13/23 09:31	02/14/23 19:49	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*120*		*37 - 120*	*02/13/23 09:31*	*02/14/23 19:49*	*1*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*02/13/23 09:31*	*02/14/23 19:49*	*1*
p-Terphenyl-d14	*117*		*64 - 127*	*02/13/23 09:31*	*02/14/23 19:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:24	1

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-206133-15

Date Collected: 02/08/23 15:10
Matrix: WQ
Date Received: 02/09/23 19:51

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 21:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 21:18	1
Toluene	ND		1.0	0.51	ug/L			02/13/23 21:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*02/13/23 21:18*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*02/13/23 21:18*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*02/13/23 21:18*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/13/23 21:18*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 20:18	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 20:18	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:18	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 20:18	1
Chrysene	ND		0.49	0.072	ug/L		02/13/23 09:31	02/14/23 20:18	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 20:18	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 20:18	1
Fluorene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:18	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 20:18	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 20:18	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 20:18	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*02/13/23 09:31*	*02/14/23 20:18*	*1*
Nitrobenzene-d5 (Surr)	*81*		*26 - 120*	*02/13/23 09:31*	*02/14/23 20:18*	*1*
p-Terphenyl-d14	*111*		*64 - 127*	*02/13/23 09:31*	*02/14/23 20:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/20/23 13:27	1

Client Sample ID: DUP-20230208

Date Collected: 02/08/23 00:00
Date Received: 02/09/23 19:51

Lab Sample ID: 480-206133-16

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/13/23 21:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/13/23 21:42	1
Toluene	ND	UJ	1.0	0.51	ug/L			02/13/23 21:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/13/23 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*02/13/23 21:42*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*02/13/23 21:42*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/13/23 21:42*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/13/23 21:42*	*1*

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		02/13/23 09:31	02/14/23 20:46	1
Acenaphthylene	ND		0.29	0.055	ug/L		02/13/23 09:31	02/14/23 20:46	1
Anthracene	ND		0.49	0.033	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:46	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		02/13/23 09:31	02/14/23 20:46	1
Chrysene	ND	UJ	0.49	0.072	ug/L		02/13/23 09:31	02/14/23 20:46	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		02/13/23 09:31	02/14/23 20:46	1
Fluoranthene	ND		0.49	0.078	ug/L		02/13/23 09:31	02/14/23 20:46	1
Fluorene	ND	UJ	0.49	0.057	ug/L		02/13/23 09:31	02/14/23 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		02/13/23 09:31	02/14/23 20:46	1
Naphthalene	ND		0.98	0.062	ug/L		02/13/23 09:31	02/14/23 20:46	1
Phenanthrene	ND		0.20	0.060	ug/L		02/13/23 09:31	02/14/23 20:46	1
Pyrene	ND		0.49	0.074	ug/L		02/13/23 09:31	02/14/23 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*37 - 120*	*02/13/23 09:31*	*02/14/23 20:46*	*1*
Nitrobenzene-d5 (Surr)	*78*		*26 - 120*	*02/13/23 09:31*	*02/14/23 20:46*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*02/13/23 09:31*	*02/14/23 20:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	0.010	0.0041	mg/L			02/20/23 13:45	1