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Date: October 27, 2022
Our Ref: 30126623
Subject: **Third Quarter 2022 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 third quarter of 2022 (Q3) 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).

This quarter report summarizes the following activities conducted from July 1, 2022, to September 30, 2022 in accordance with the AECOM's NYSDEC-approved Interim Site Management Plan (ISMP)[1]:

- Q3 monitoring conducted between August 3 and 4, 2022; and
- Installing new monitoring well TMW-2DR (a replacement for TMW-2D) on July 13 and 14, 2022.

Relevant background information is presented in the following section followed by summaries of Q3 monitoring and operation and maintenance activities.

Background

The former MGP site is approximately 0.815 acres and comprises a vacant masonry building and site cover consisting of grass, an asphalt driveway and parking area, and a section of riparian land along the Keuka Lake Outlet. An offsite area consists of an approximate 1.7-acre portion of submerged sediments beneath the Keuka Lake Outlet (Class C waterway), adjacent 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. Operating companies included the Penn Yan Gas Light Company (1899-1926) and the New York State Central Electric Corporation (1927-1931). Gas was distributed to customers through buried mains and was 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.

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

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].

Third Quarter 2022 Monitoring and Sampling

As presented in the ISMP[1], groundwater remedy objectives for the Q3 monitoring period are to:

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

To document achieving the objectives, this report presents the following:

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

Groundwater Elevation and Flow

During the Q3 monitoring event, field personnel measured the depth to groundwater 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.

Measured depths to groundwater and calculated groundwater elevations during this reporting period and previous monitoring events, are summarized in Table 1.

Q3 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 the shallow and deep potentiometric surface maps for the May 2022 event, no significant changes to site-wide groundwater flow direction are observed.

Groundwater Sampling Activities and Results

Arcadis conducted the Q3 groundwater sampling event on August 3 and 4, 2022. 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 (QA/QC) samples to facilitate data validation were submitted to Eurofins TestAmerica 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 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.

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 the Groundwater Effluent Limitations 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 (12 micrograms per liter [µg/L]) was detected in groundwater collected from monitoring well PRMW-5S at a concentration exceeding the Class GA groundwater quality standard.
  - Ethylbenzene (4.5 µg/L), toluene (0.69 µg/L), and total xylenes (2.2 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 wells.
  - BTEX detections and concentration trends in shallow wells are consistent with historical results.
- PAHs:
  - No PAHs were detected at concentrations exceeding the Class GA groundwater quality standards.
  - Acenaphthene (14 µg/L), acenaphthylene (2.7 µg/L), fluorene (4.9 µg/L), naphthalene (6.4 µg/L), and phenanthrene (2.8 µg/L) were detected in groundwater collected from monitoring well PRMW-5S at a concentration less than the Class GA groundwater quality standards.
  - PAHs were not detected in groundwater collected from the remaining shallow wells.
  - PAH detections and concentration trends in shallow wells are consistent with historical results. However, PAH concentrations decreased to less than Class GA groundwater quality standards in PRMW-5S when compared to the last sampling event (second quarter of 2022 [Q2]).

- Total Cyanide:
  - Total cyanide was detected in groundwater collected from monitoring well PRMW-5S (0.045 µg/L) at concentrations less than the Class GA groundwater quality standards.
  - Total cyanide was not detected in groundwater collected from the remaining shallow wells.
  - Total cyanide concentrations in shallow 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 collected from the deep wells.
- PAHs:
  - PAHs were not detected in groundwater collected from the deep wells.
- Total cyanide:
  - Total cyanide was not detected in groundwater collected from the deep wells.

Site Inspection

A site inspection of onsite and offsite areas is required annually, per the ISMP[1]. The purpose of the site inspection is to evaluate general site conditions and the condition and continued effectiveness of the cover system. Arcadis completed the site inspection August 3, 2022. During the annual inspection, areas within the former MGP footprint were inspected for sparse vegetation, erosion, settling, and disturbance to the surface cover. A Site Inspection Form associated with the inspection is included as Attachment 4. A photographic log documenting site conditions at the time of the annual inspection is included as Attachment 5. The location where each photograph was taken, and the direction that the photographer was facing, is shown on Figure 5.

The annual site inspection indicated that the site cover is in good condition, and:

- Maintenance to the soil and gravel cover across the site was not required.
- Maintenance to the engineered cap cover was not required.

During the site inspection, a shed associated with a boat rental company was observed in the southwest corner of the site (near PRMW-4S). Based on conversations with the adjacent property owner, NYSEG understands this structure and its current location to be temporary and used seasonally during warm weather months (i.e., will not be heated). The structure is observed to be occupied occasionally during seasonal business hours and installed above grade on cinderblock/stone footings with an air gap between the shed floor and the ground surface. The structure installation, temporary location/occupancy, and seasonal operation mitigates potential vapor intrusion concerns.

Additionally, the ISMP[1] requires annual inspection of the Keuka Lake Outlet water surface near the Outlet Control Structure (Figure 5). Results of the inspection indicated that a petroleum-based sheen and/or coal tar non-aqueous phase liquid was not observed on the water surface near the Outlet Control Structure at the Main Street bridge. However, a small biological sheen, as evidenced by its blocky perimeter/pieces was observed among the algae and plant material on the water surface, as shown in Picture 12 in Attachment 5.

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.

TMW-2DR Well Installation

Due to a blockage in monitoring well TMW-2D, preventing groundwater sample collection, Arcadis installed replacement monitoring well TMW-2DR on July 13 and 14, 2022. The well was installed approximately 5 feet from TMW-2D and screened from 50 to 60 feet below ground surface with a 2-inch-diameter, 0.010-inch-slotted, Schedule 40 polyvinyl chloride well screen with a 2-inch-diameter polyvinyl chloride riser to the surface (similar to TMW-2D). Due to the proximity to TMW-2D, soil was not logged. A well construction log is included in Attachment 6, and the location is shown on the site figures included in this report.

Conclusions and Recommendations

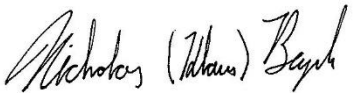
The Q3 monitoring results are generally consistent with historical groundwater results. Based on the Q3 monitoring results:

- The groundwater flow direction in the shallow and deep groundwater-bearing units is generally consistent with historical conditions.
- BTEX concentrations in groundwater collected from monitoring well PRMW-5S decreased slightly when compared to the results from Q2. 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 ISMP[1]. The next groundwater sampling event is scheduled for November 2022. Groundwater samples will continue to be analyzed for BTEX, PAHs, and total cyanide as required by the ISMP.

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
Jason Brien, PE, Arcadis

Mr. Gerald Pratt, PG
NYSDEC
October 27, 2022

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, August 4, 2022
- Figure 4 – Deep Groundwater Contour Map, August 4, 2022
- Figure 5 – Photographic Orientation Map
- Attachment 1 – Groundwater Sampling Logs
- Attachment 2 – Groundwater Laboratory Reports
- Attachment 3 – Data Usability Summary Report
- Attachment 4 – Site Inspection Form
- Attachment 5 – Site Inspection Photographic Log
- Attachment 6 – TMW-2DR Well Installation Log

Tables

Table 1
Gauging Data

Third Quarter 2022 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 Thickness of Sediments (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
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
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
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
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
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
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
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

See Notes on Page 2.

Table 1
Gauging Data

Third Quarter 2022 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 Thickness of Sediments (feet)
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
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
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	-
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	-	-	-
TMW-2DR	719.23	-	50 - 60	August 3, 2022	1.17	718.06	-	59.20	-

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 survey and well installation information provided by AECOM.

Table 2
Groundwater Analytical Results

Third Quarter 2022 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	05/25/21	08/25/21	11/30/21	02/25/22	06/01/22	08/04/22
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 UJ	1.0 U	1.0 U	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 UJ	1.0 U	1.0 U	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 UJ	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	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 U
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	5.2 U	5.0 U	5.0 U	0.31 U	0.30 U	5.0 U
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 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	5.2 U	5.0 U	5.0 U	0.31 UJ	0.30 U	5.0 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	5.2 U	5.0 U	5.0 U	0.19 UJ	0.18 U	5.0 U
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	5.2 U	5.0 U	5.0 U	0.31 UJ	0.30 U	5.0 U
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	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U
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	5.2 U	5.0 U	5.0 U	0.31 UJ	0.30 U	5.0 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 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	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U
Phenanthrene	50	ug/L	5.2 U	5.0 UJB	5.0 U	0.20 U	0.19 U	5.0 U	5.2 U	5.0 U	5.0 U	0.21 U	0.20 U	5.0 U
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 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	0.01 U	0.01 U	0.01 U	0.010 U	0.010 UB	0.010 UB

See Notes on Page 6.

Table 2
Groundwater Analytical Results

Third Quarter 2022 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-2S						PRMW-3D					
Date Collected:			05/25/21	08/24/21	11/30/21	02/25/22	06/01/22	08/04/22	05/24/21	08/24/21	11/30/21	02/25/22	06/01/22	08/04/22
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 UJ	1.0 U	1.0 U	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 UJ	1.0 U	1.0 U	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 UJ	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	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.18 U	0.18 U	5.0 U	5.2 U	5.0 U	5.0 U	0.19 U	0.17 U	5.0 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U
Phenanthrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.20 U	0.20 U	5.0 U	5.2 U	5.0 U	5.0 U	0.21 U	0.19 U	5.0 U
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	**0.015 J**	**0.064**	**0.09**	**0.077**	**0.078 J**	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB

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Table 2
Groundwater Analytical Results

Third Quarter 2022 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-3S						PRMW-4S					
Date Collected:			05/24/21	08/24/21	11/30/21	02/25/22	05/31/22	08/04/22	05/25/21	08/23/21	11/29/21	02/25/22	05/31/22	08/04/22
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 UJ	1.0 U	1.0 U	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 UJ	1.0 U	1.0 U	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 UJ	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	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 UJ	5.0 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.18 U	0.17 UJ	5.0 U	5.2 U	5.0 U	5.0 U	3.7 U	0.17 U	5.0 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 UJ	5.0 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 UJ	5.0 U	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U	5.2 U	5.0 U	5.0 U	20 U	0.95.0 U	5.0 U
Phenanthrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U	5.2 U	5.0 U	5.0 U	4.1 U	0.19 U	5.0 U
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	**0.011**	0.01 U	**0.27**	0.010 U	0.010 U	0.010 UBJ	0.01 U	**0.0072 J**	0.01 U	0.010 U	**0.0056 J**	0.011 UB

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Table 2
Groundwater Analytical Results

Third Quarter 2022 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	05/25/21	08/25/21	11/30/21	02/25/22	05/31/22	08/03/22
BTEX														
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**23**	**21**	**27**	**14**	**16**	**12**
Ethylbenzene	5	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.4 J**	**3**	**5.9**	**3.3**	**5.7**	**4.5**
Toluene	5	ug/L	1.0 UJ	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**	**0.95 J**	**0.69 J**
Xylenes (total)	5	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**4.9 J**	**3.3**	**6.6**	**2.9**	**4.1**	**2.2**
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	**31 J**	**28 J**	**41**	**21 J**	**27 J**	**19 J**
PAHs														
Acenaphthene	20	ug/L	5.2 U	5.0 U	5.0 U	**0.055 J**	**0.048 J**	5.0 U	**22**	**39**	**15**	**26 D**	**18 D**	**14 J**
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	**4.4 J**	**7.6**	**3.4 J**	**5.2**	**3.5**	**2.7 J**
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	**1.5 J**	**1.6 J**	**0.52 J**	**0.73**	**0.32 J**	25.0 U
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	5.2 U	**0.39 J**	5.0 U	0.32 U	**0.055 J**	25.0 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.18 U	0.18 U	5.0 U	5.2 U	5.0 U	5.0 U	0.19 U	0.18 U	25.0 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	5.2 U	5.0 U	5.0 U	0.32 U	0.31 U	25.0 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	5.2 U	5.0 U	5.0 U	0.53 U	0.51 U	25.0 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	5.2 U	5.0 U	5.0 U	0.32 U	0.31 U	25.0 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	**0.084 J**	0.51 U	25.0 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	5.2 U	5.0 U	5.0 U	0.53 U	0.51 U	25.0 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	**3 J**	**5.5**	**2.1 J**	**2.5**	**1.5**	25.0 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	**7**	**12**	**5.5**	**10**	**5.6**	**4.9 J**
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	5.2 U	5.0 U	5.0 U	0.53 U	0.51 U	25.0 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	**44**	**45**	**44**	**26 D**	**29 D**	**6.4 J**
Phenanthrene	50	ug/L	5.2 U	5.0 U	5.0 U	**0.066 J**	0.20 U	5.0 U	**8.2**	**21 B**	**5.7**	**9.8**	**3.8**	**2.8 J**
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	**2 J**	**3.4 J**	**1.3 J**	**1.5**	**0.85**	25.0 U
Total PAHs	- -	ug/L	ND	ND	ND	**0.12 J**	**0.048 J**	ND	**92 J**	**140 J**	**78 J**	**82 J**	**63 J**	**31 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	**0.016**	**0.11**	0.01 U	**0.076**	**0.047 J**	**0.045**

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Table 2
Groundwater Analytical Results

Third Quarter 2022 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-6D						PRMW-6S					
Date Collected:			05/25/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22	05/25/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22
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 UJ	1.0 U	1.0 U	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 UJ	1.0 U	1.0 U	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 UJ	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	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 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	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	5.4 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U
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	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U
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	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	0.95.0 U	5.0 U	5.4 U	5.0 U	5.0 U	1.0 U	0.96 U	5.0 U
Phenanthrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U	5.4 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 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	**0.0060 J**	0.010 UB	0.01 U	0.01 U	**0.051**	0.010 U	0.010 U	0.010 UB

See Notes on Page 6.

Table 2
Groundwater Analytical Results

Third Quarter 2022 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						TMW-2DR
Date Collected:			05/26/21	08/25/21	11/30/21	02/25/22	06/01/22	08/03/22	08/03/22
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
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
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
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
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND
PAHs									
Acenaphthene	20	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 U
Acenaphthylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	5.0 U
Anthracene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 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	5.0 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.19 U	0.17 U	5.0 U	5.0 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	5.0 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 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	5.0 U
Chrysene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 U
Fluoranthene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 U
Fluorene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 U
Naphthalene	10	ug/L	5.2 U	5.0 U	5.0 U	1.0 U	0.96 U	5.0 U	5.0 U
Phenanthrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.21 U	0.19 U	5.0 U	5.0 U
Pyrene	50	ug/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	5.0 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND
Inorganics									
Cyanide, Total	0.2	mg/L	0.01 UJ	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB	0.010 U

Notes:
1. Samples were submitted to Eurofins TestAmerica, 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.
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.

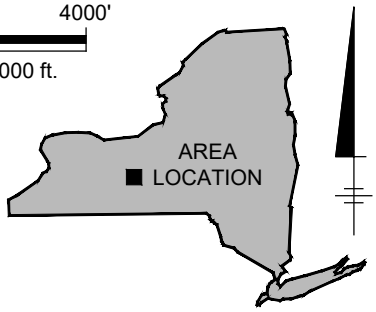
Acronyms and Abbreviations:
BTEX - Benzene, Ethylbenzene, Toluene, Xylenes
NA - not analyzed
ND - not detected
NYSDEC - New York State Department of Environmental Conservation
PAH - Polycyclic Aromatic Hydrocarbon
TOGS - Technical and Operational Guidance Series
USEPA - United States Environmental Protection Agency

Figures

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

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

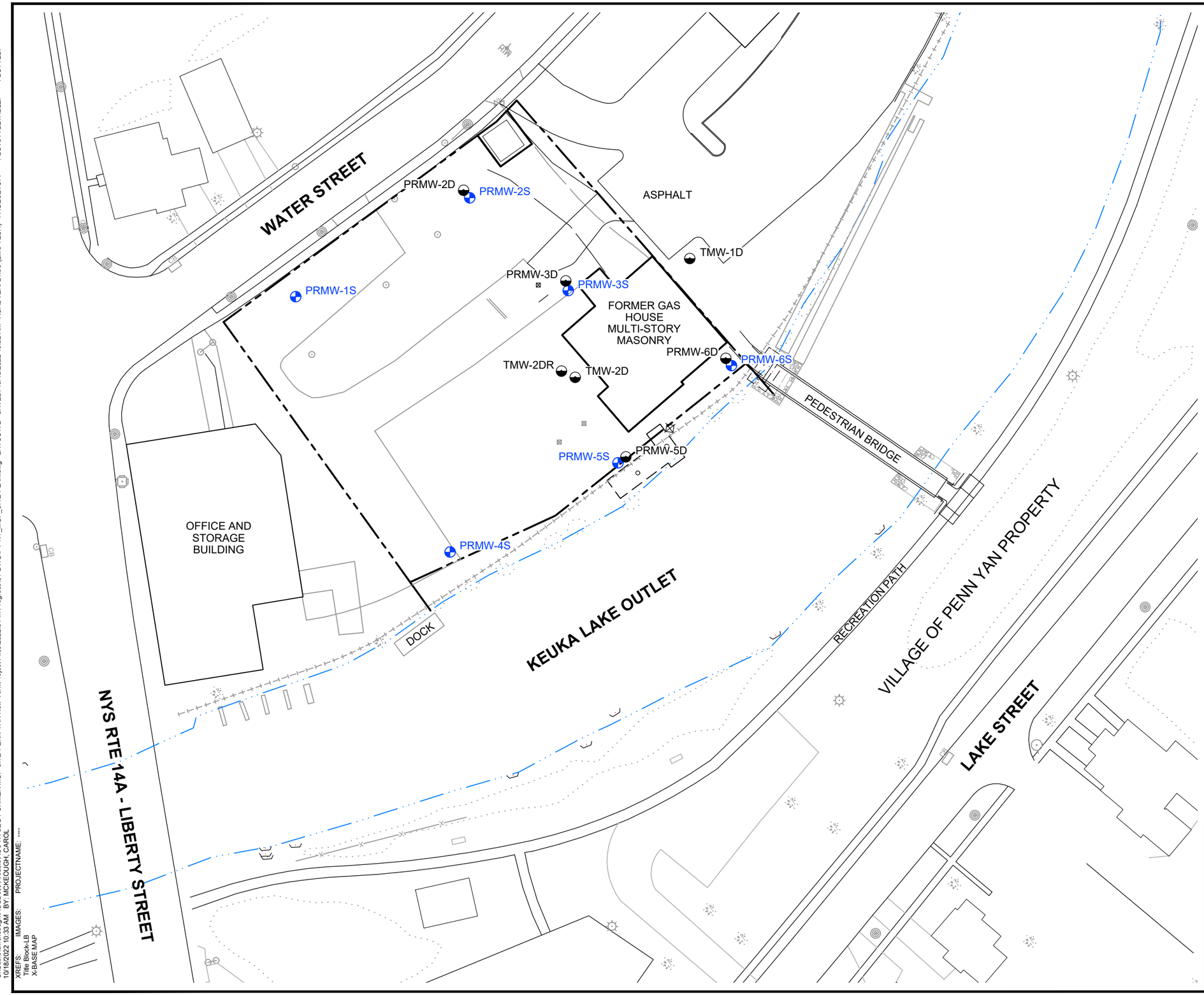


NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

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'

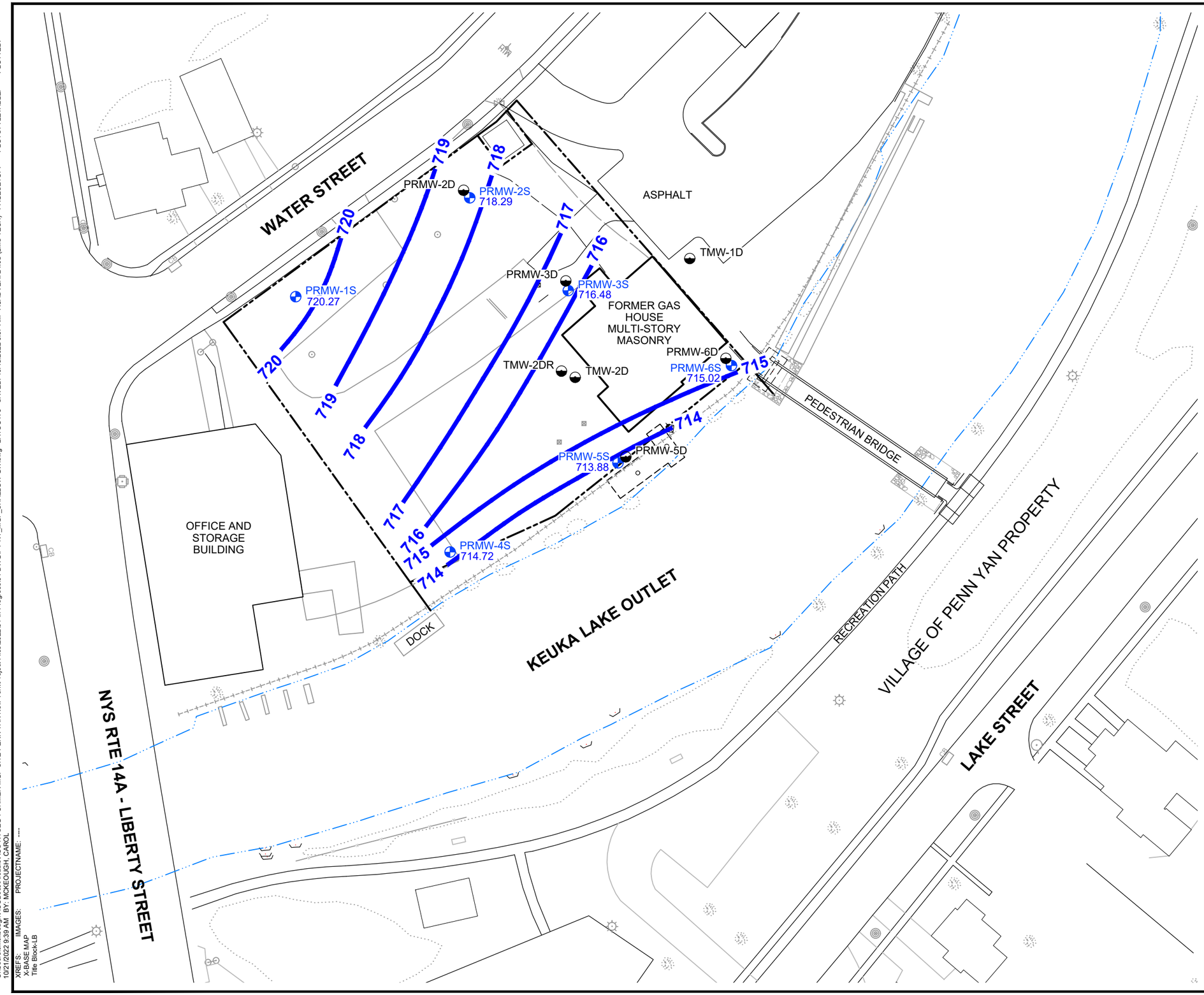
GRAPHIC SCALE

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'

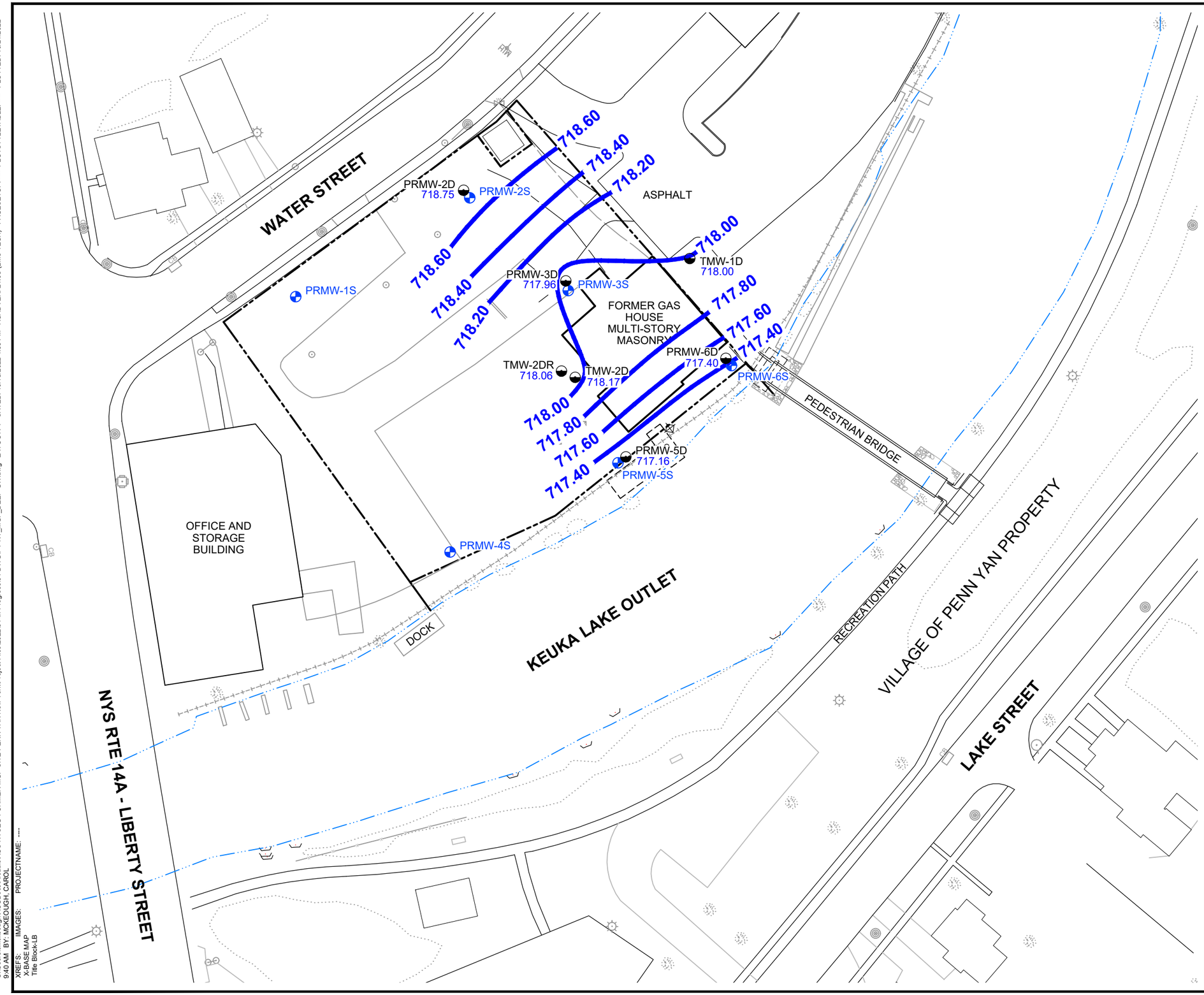
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SHALLOW GROUNDWATER CONTOUR MAP AUGUST 4, 2022

ARCADIS

FIGURE 3



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'

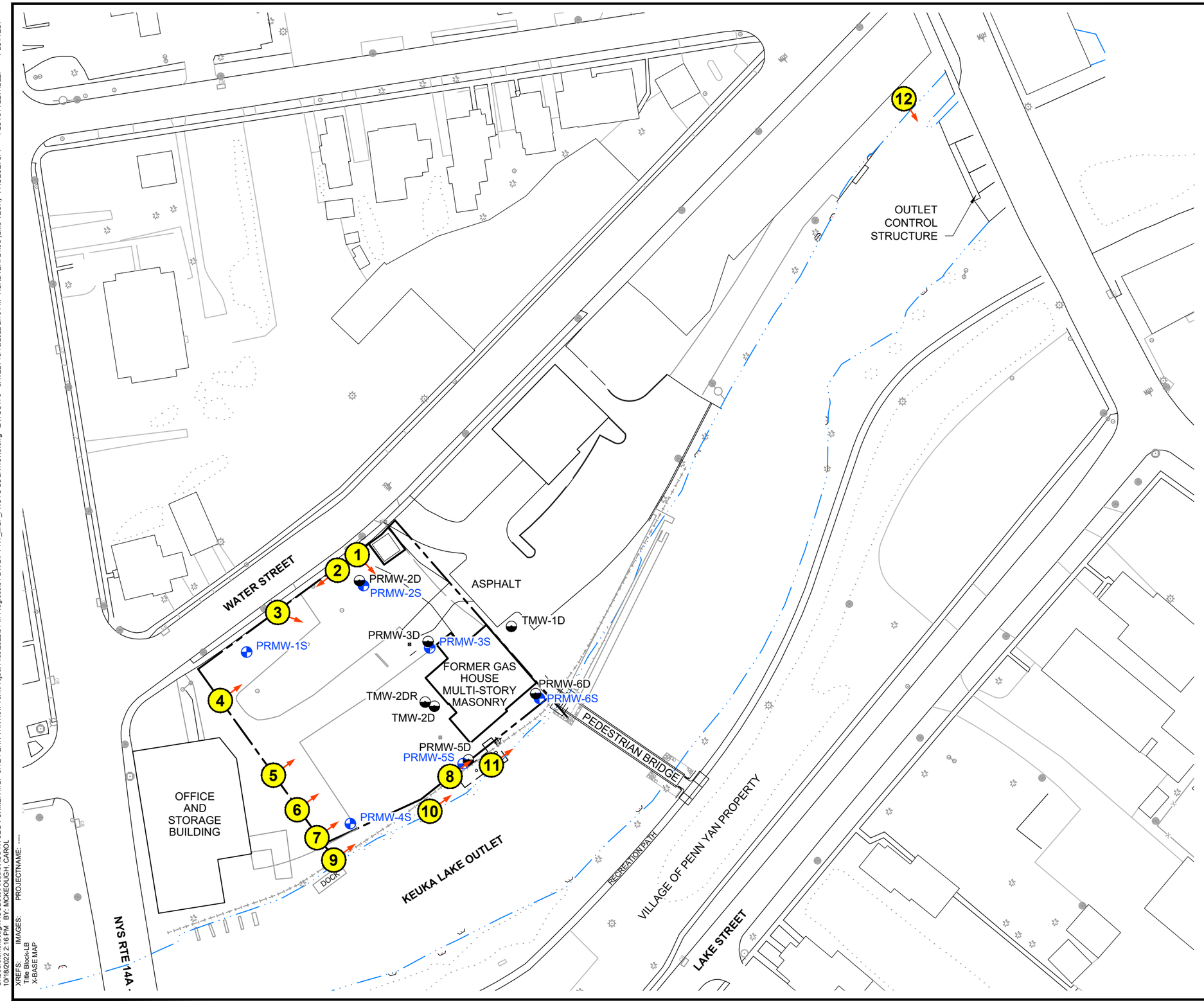
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

DEEP GROUNDWATER CONTOUR MAP AUGUST 4, 2022

ARCADIS

FIGURE 4



LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- 3 — PHOTOGRAPH LOCATION / ORIENTATION / NUMBER

NOTE:

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

0 75' 150'

GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

PHOTOGRAPHIC ORIENTATION MAP

ARCADIS

FIGURE 5

Attachment 1

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming — **Well ID:** PRMW-25
Client / Job Number: NYSEG / — **Date:** 8/14/22
Weather: 75°F cloudy — **Time In:** 0815 **Time Out:** 0940

Well Information

Depth to Water:	16.26	(feet TIC)
Total Depth:	22.94	(feet TIC)
Length of Water Column:	6.68	(feet)
Volume of Water in Well:	1.1	(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: 65 (min)
Average Pumping Rate: 200 (ml/min) — Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 7.3 (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
	0830	0835	0840	0845	0850	0855	0900	0905	0910	0915	0920		
Volume Purged (gal)	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	S		
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200	A		
Depth to Water (ft.)	16.47	16.48	16.49	16.45	16.41	16.42	16.44	16.46	16.47	16.49	M		
pH	7.42	7.42	7.38	7.35	7.34	7.34	7.34	7.32	7.31	7.30	P		
Temp. (C)	15.9	16.1	15.9	16.1	17.0	16.9	16.7	16.6	16.2	16.2	L		
Conductivity (mS/cm)	1.275	1.279	1.253	1.300	1.343	1.370	1.373	1.394	1.414	1.429	E		
Dissolved Oxygen (mg/l)	1.86	1.91	1.45	1.21	1.01	1.05	1.23	1.12	1.08	1.04			
ORP (mV)	151.6	156.9	158.3	156.7	153.9	153.1	153.3	154.5	155.4	156.1			
Turbidity (NTU)	5.64	4.17	4.03	2.93	3.62	4.07	1.68	1.52	1.99	1.45			
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-25		Sample Time: 0920
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 0825 clear, no odor

Final Purge: pump off @ 0930 clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: PRMW-2D
Client / Job Number: NYSEG /
Date: 8/14/22
Weather: 75°F cloudy
Time In: 0945 **Time Out:** 1050

Well Information

Depth to Water:	15.83	(feet TIC)
Total Depth:	37.78	(feet TIC)
Length of Water Column:	21.95	(feet)
Volume of Water in Well:	3.6	(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:	55	(min)		
Average Pumping Rate:	200	(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

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	0950	0955	1000	1005	1010	1015	1020	1025	1030				
Volume Purged (gal)	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	S				
Rate (mL/min)	200	200	200	200	200	200	200	200	A				
Depth to Water (ft.)	16.99	18.21	19.38	20.35	21.33	22.13	22.93	23.89	M				
pH	7.87	7.73	7.71	7.70	7.70	7.70	7.70	7.70	P				
Temp. (C)	15.3	15.1	15.5	15.4	15.2	15.9	15.7	16.0	L				
Conductivity (mS/cm)	0.548	0.529	0.533	0.531	0.528	0.537	0.534	0.538	E				
Dissolved Oxygen (mg/l)	1.49	0.78	0.71	0.68	0.66	0.67	0.69	0.72					
ORP (mV)	184.4	176.4	171.3	163.6	158.0	152.3	147.9	143.6					
Turbidity (NTU)	5.86	6.79	4.84	4.42	4.65	4.85	4.77	4.22					
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-2D		Sample Time: 1030
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 0945 clear, no odor

Final Purge: pump off @ 1040 clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: PRMW-15
Client / Job Number: NYSEG /
Date: 8/4/22
Weather: 83°F Cloudy
Time In: 1055 **Time Out:** 1220

Well Information

Depth to Water:	10.84	(feet TIC)
Total Depth:	29.61	(feet TIC)
Length of Water Column:	18.77	(feet)
Volume of Water in Well:	3.1	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	≈27	(feet TIC)

Well Type:	(Flushmount)	Stick-Up	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	NA	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:	200	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	1.9	(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:	1110	1115	1120	1125	1130	1135	1140	1145	1150	1155			
Volume Purged (gal)	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	S			
Rate (mL/min)	200	200	200	200	200	200	200	200	200	A			
Depth to Water (ft.)	11.74	12.56	13.27	13.92	14.66	15.42	16.41	17.02	17.59	M			
pH	6.94	6.94	6.95	6.95	6.96	6.97	6.96	6.97	6.99	P			
Temp. (C)	16.7	17.9	17.8	17.7	17.7	17.0	17.1	17.4	18.4	L			
Conductivity (mS/cm)	3.391	3.467	3.442	3.414	3.356	3.163	3.022	2.962	2.961	E			
Dissolved Oxygen (mg/l)	1.33	0.91	0.71	0.66	0.63	0.62	0.61	0.60	0.59				
ORP (mV)	215.8	208.1	201.4	193.9	186.5	180.2	174.9	170.4	166.2				
Turbidity (NTU)	6.51	6.29	4.87	4.10	4.32	4.61	4.47	4.21	3.96				
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: PRMW-15		Sample Time: 1155
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: Pump on @ 1105 clear, no odor

Final Purge: pump off @ 1205 clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** August 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-45
Client / Job Number:	NYSEG /	**Date:**	8/4/2022
Weather:	Cloudy, 75°	**Time In:**	1025 **Time Out:** 1140

Well Information

Depth to Water:	7.20	(feet TIC)
Total Depth:	27.05	(feet TIC)
Length of Water Column:	19.85	(feet)
Volume of Water in Well:	3.23	(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	
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:	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

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1035	1040	1045	1050	1055	1100	1105	1110	1115	1120	1125		
Volume Purged (gal)			1.0		1.5		2.0		2.5		S		
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	A		
Depth to Water (ft.)	7.83	8.87	8.87	9.03	9.03	9.07	9.07	9.07	9.09	9.09	M		
pH	7.30	7.28	7.22	7.19	7.16	7.14	7.13	7.11	7.10	7.10	P		
Temp. (C)	17.4	17.4	17.3	17.1	17.2	17.1	17.1	17.1	17.2	17.1	L		
Conductivity (mS/cm)	0.760	0.798	0.943	1.015	1.093	1.166	1.197	1.249	1.250	1.276	E		
Dissolved Oxygen (mg/l)	1.22	1.15	1.13	1.12	1.10	1.10	1.09	1.09	1.08	1.08	↓		
ORP (mV)	-93.7	-103.2	-106.6	-105.9	-104.2	-102.4	-101.5	-100.0	-100.1	-100.2			
Turbidity (NTU)	—	—	—	—	—	—	—	—	—	—			
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-45	Sample Time: 1125	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge:

Pump on @ 1030; clear, no odor

Final Purge:

Pump off @ 1130; clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: cloudy, 75°
Well ID: PRMW-35
Date: 8/4/2022
Time In: 0800 **Time Out:** 0915

Well Information

Depth to Water	7.25	(feet TIC)
Total Depth	22.76	(feet TIC)
Length of Water Column	15.51	(feet)
Volume of Water in Well	2.52	(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: 60 (min)
Average Pumping Rate: 150 (ml/min) — Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 2.0-2.5 (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

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0815	0820	0825	0830	0835	0840	0845	0850					
Volume Purged (gal)				1.0		1.5		S					
Rate (mL/min)	150	150	150	150	150	150	150	A					
Depth to Water (ft.)	7.76	8.18	8.18	8.18	8.62	8.78	8.86	M					
pH	7.23	7.24	7.25	7.26	7.26	7.27	7.27	P					
Temp. (C)	15.7	15.8	15.6	15.7	15.5	15.5	15.2	L					
Conductivity (mS/cm)	0.735	0.744	0.741	0.737	0.737	0.732	0.726	E					
Dissolved Oxygen (mg/l)	1.50	1.27	1.24	1.21	1.20	1.19	1.19	↓					
ORP (mV)	-67.7	-73.1	-74.5	-76.3	-77.9	-79.0	-80.2						
Turbidity (NTU)	20.72	45.25	—	—	—	—	—						
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: 0850	
MS/MSD:	(Yes)	No
Duplicate:	(Yes)	No
Duplicate ID: DUP-20220804	Dup. Time: —	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge:

Pump on @ 0810; clear, no odor

Final Purge:

Pump off @ 0910; clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: Cloudy, 79°
Well ID: PRMW-3D
Date: 8/4/2022
Time In: 0920 **Time Out:** 1025

Well Information

Depth to Water:	5.85	(feet TIC)
Total Depth:	35.78	(feet TIC)
Length of Water Column:	29.93	(feet)
Volume of Water in Well:	4.87	(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: 55 (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

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0930	0935	0940	0945	0950	0955	1000	1005	1010	1015 S			
Volume Purged (gal)		0.5		1.0		1.5		2.0		A			
Rate (mL/min)	150	150	150	150	150	150	150	150	150	M			
Depth to Water (ft.)	6.36	7.41	7.85	7.85	8.1	8.27	8.27	8.27	8.36	P			
pH	7.66	7.65	7.65	7.65	7.66	7.66	7.66	7.66	7.66	L			
Temp. (C)	16.0	15.9	15.8	15.6	15.6	15.3	15.6	15.3	15.5	E			
Conductivity (mS/cm)	0.450	0.450	0.450	0.449	0.449	0.449	0.449	0.448	0.448	|			
Dissolved Oxygen (mg/l)	1.32	1.24	1.21	1.20	1.19	1.19	1.17	1.17	1.16	|			
ORP (mV)	-92.2	-103.5	-110.7	-118.1	-125.2	-130.4	-135.7	-138.9	-141.9	|			
Turbidity (NTU)	9.29	14.50	21.95	30.23	~~41.46~~ /	/	/	/	/	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-3D	Sample Time: 1015	
MS/MSD:	Yes / No	
Duplicate:	Yes / No	
Duplicate ID /	Dup. Time: /	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge:

Pump on @ 0925; clear, no odor

Final Purge:

Pump off @ 1020; clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: Sunny,

Well ID: TMW-20R
Date: 8/3/2022
Time In: 1215 **Time Out:** 1340

Well Information

Depth to Water:	1.17	(feet TIC)
Total Depth:	59.20	(feet TIC)
Length of Water Column:	58.03	(feet)
Volume of Water in Well:	9.45	(gal)
Screen Interval:	/	(feet)
Depth to pump Intake:	~ 59	(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: 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

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1235	1240	1245	1250	1255	1300	1305	1310	1315	1320	1325		
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	A		
Depth to Water (ft.)	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	M		
pH	7.57	7.57	7.57	7.57	7.57	7.58	7.58	7.58	7.58	7.58	P		
Temp. (C)	16.8	16.5	16.4	16.3	16.2	16.0	16.0	16.1	16.1	15.9	L		
Conductivity (mS/cm)	0.779	0.775	0.775	0.777	0.762	0.752	0.731	0.712	0.700	0.693	E		
Dissolved Oxygen (mg/l)	1.31	1.24	1.21	1.20	1.19	1.19	1.18	1.17	1.17	1.17	↓		
ORP (mV)	-34.2	-45.4	-53.8	-60.1	-66.3	-70.4	-74.6	-77.9	-81.0	-82.7			
Turbidity (NTU)	30.53	35.18	37.52	40.17	45.54	48.57	/	/	/	/	↓		
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-20R		Sample Time: 1325
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID	/	Dup. Time: /
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge:

Pump on @ 1230; clear, no odor

Final Purge:

Pump off @ 1330; clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Client / Job Number: NYSEG /
Weather: Sunny, 78°
Well ID: PRMW-5D
Date: 8/3/2022
Time In: 1115 **Time Out:** 1210

Well Information

Depth to Water:	3.58	(feet TIC)
Total Depth:	31.59	(feet TIC)
Length of Water Column:	28.01	(feet)
Volume of Water in Well:	4.56	(gal)
Screen Interval:	—	(feet)
Depth to pump Intake:	~ 31	(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: 45 (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
	1125	1130	1135	1140	1145	1150	1155	1200					
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.)	4.55	5.22	6.63	6.63	7.13	7.13	7.24	M					
pH	7.73	7.70	7.70	7.71	7.71	7.71	7.71	P					
Temp. (C)	17.6	17.4	17.4	17.2	16.9	17.0	16.9	L					
Conductivity (mS/cm)	0.425	0.423	0.422	0.423	0.422	0.422	0.423	E					
Dissolved Oxygen (mg/l)	1.46	1.26	1.22	1.21	1.19	1.18	1.18						
ORP (mV)	-133.1	-142.5	-154.4	-159.4	-167.5	-169.7	-172.2						
Turbidity (NTU)	56.45	—	—	—	—	—	—						
Notes:		YSI getting bubbles in it											

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: 1200
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge:

Pump on @ 1120; clear, no odor

Final Purge:

Pump off @ 1205; clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** August 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-55
Client / Job Number:	NYSEG /	**Date:**	8/3/2022
Weather:	Sunny, 72°	**Time In:**	0950 **Time Out:** 1110

Well Information

Depth to Water:	6.84	(feet TIC)
Total Depth:	22.54	(feet TIC)
Length of Water Column:	15.7	(feet)
Volume of Water in Well:	2.55	(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:	60	(min)		
Average Pumping Rate:	150	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	2.5-3.0	(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

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1100	
Volume Purged (gal)				1.0		1.5		2.0		2.5		S	
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	A	
Depth to Water (ft.)	6.87	6.97	6.99	6.99	7.02	7.02	7.04	7.04	7.07	7.07	7.07	M	
pH	7.31	7.33	7.35	7.35	7.36	7.36	7.36	7.36	7.37	7.37	7.37	P	
Temp. (C)	17.6	17.5	17.5	17.7	17.6	17.6	17.6	17.7	17.7	17.8	17.8	L	
Conductivity (mS/cm)	0.579	0.580	0.580	0.579	0.577	0.573	0.567	0.562	0.557	0.554	0.552	E	
Dissolved Oxygen (mg/l)	1.41	1.32	1.27	1.23	1.22	1.21	1.19	1.18	1.17	1.16	1.15		
ORP (mV)	-101.2	-112.4	-125.7	-139.2	-150.9	-162	-169.2	-176.4	-182.4	-186.5	-189.4		
Turbidity (NTU)	6.87	13.40	26.83	~~26.81~~	~~26.87~~	~~26.18~~	—	—	—	—	—		
Notes:				YSI getting air bubbles									

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-55	Sample Time: 1100	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge:

Pump on @ 1000; clear, no odor

Final Purge:

Pump off @ 1105; clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: PRMW-65
Client / Job Number: NYSEG /
Date: 8/3/22
Weather: 78°F Sunny
Time In: 1120 **Time Out:** 1240

Well Information

Depth to Water:	6.08	(feet TIC)
Total Depth:	23.00	(feet TIC)
Length of Water Column:	16.92	(feet)
Volume of Water in Well:	2.8	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	~21	(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:	200	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	1.5	(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:	1140	1145	1150	1155	1200	1205	1210	1215					
Volume Purged (gal)	0.1	0.3	0.5	0.7	0.9	1.1	1.3	S					
Rate (mL/min)	200	200	200	200	200	200	200	A					
Depth to Water (ft.)	7.05	8.04	9.03	9.84	10.59	11.27	11.96	M					
pH	8.21	8.17	8.16	8.17	8.16	8.15	8.15	P					
Temp. (C)	17.4	16.7	16.8	16.9	17.5	17.8	17.5	L					
Conductivity (mS/cm)	0.321	0.308	0.306	0.306	0.311	0.313	0.309	E					
Dissolved Oxygen (mg/l)	1.34	0.75	0.65	0.63	0.63	0.62	0.62						
ORP (mV)	-60.4	-107.6	-141.4	-149.0	-152.5	-153.7	-153.1						
Turbidity (NTU)	7.19	7.82	3.10	4.11	4.46	3.42	3.41						
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: 1215
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 1135 clear, no odor

Final Purge: pump off @ 1225 clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: PRmw-6D
Client / Job Number: NYSEG /
Date: 8/3/22
Weather: Sunny 72°F
Time In: 0950 **Time Out:** 1115

Well Information

Depth to Water:	3.82	(feet TIC)
Total Depth:	36.84	(feet TIC)
Length of Water Column:	33.02	(feet)
Volume of Water in Well:	5.4	(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:	50	(min)		
Average Pumping Rate:	200	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	2.2	(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:	1010	1015	1020	1025	1030	1035	1040	1045					
Volume Purged (gal)	0.1	0.3	0.5	0.7	1.0	1.2	1.5	S					
Rate (mL/min)	200	200	200	200	200	200	200	A					
Depth to Water (ft.)	4.71	5.02	5.33	5.48	5.62	5.67	5.72	M					
pH	7.90	7.87	7.87	7.88	7.88	7.88	7.87	P					
Temp. (C)	17.7	17.0	16.6	16.4	16.1	16.0	16.3	L					
Conductivity (mS/cm)	0.382	0.373	0.370	0.367	0.363	0.361	0.363	E					
Dissolved Oxygen (mg/l)	1.45	0.79	0.69	0.65	0.64	0.62	0.60						
ORP (mV)	-117.3	-140.8	-149.9	-153.9	-157.7	-159.2	-160.6						
Turbidity (NTU)	6.70	13.70	12.26	11.49	11.86	11.27	11.51						
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: 1045
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 1005, clear, sulfur odor, Trace sediment

Final Purge: pump off @ 1055, clear, slight sulfur odor, Trace sediment

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** August 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: TMW-1D
Client / Job Number: NYSEG /
Date: 8/3/22
Weather: Sunny 81°F
Time In: 1245 **Time Out:** 1415

Well Information

Depth to Water:	5.45	(feet TIC)
Total Depth:	63.25	(feet TIC)
Length of Water Column:	57.80	(feet)
Volume of Water in Well:	9.4	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	≈30	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	NA 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:	55	(min)		
Average Pumping Rate:	200	(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
	1300	1305	1310	1315	1320	1325	1330	1335	1340	1345			
Volume Purged (gal)	0.1	0.3	0.6	0.8	1.0	1.2	1.4	1.6	1.8	S			
Rate (mL/min)	200	200	200	200	200	200	200	200	200	A			
Depth to Water (ft.)	5.63	5.61	5.60	5.57	5.55	5.55	5.55	5.55	5.54	M			
pH	7.64	7.62	7.62	7.62	7.62	7.62	7.62	7.61	7.62	P			
Temp. (C)	17.6	18.0	17.8	17.8	18.6	19.3	17.5	18.2	18.7	L			
Conductivity (mS/cm)	0.411	0.416	0.414	0.415	0.420	0.428	0.411	0.415	0.420	E			
Dissolved Oxygen (mg/l)	1.18	0.92	0.82	0.80	0.78	0.77	0.74	0.73	0.71				
ORP (mV)	154.1	146.9	138.7	133.1	127.6	122.6	120.1	117.0	113.6				
Turbidity (NTU)	2.24	2.36	2.75	2.79	3.24	3.76	3.17	3.15	3.48				
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: TMW-1D		Sample Time: 1345
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 1255 clear, no odor

Final Purge: pump off @ 1350 clear, no odor

Attachment 2

Groundwater Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-200395-1
Client Project/Site: NYSEG - Penn Yan Water St. MGP

For:
New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Attn: Mr. John J Ruspantini

Authorized for release by:
8/16/2022 4:50:05 PM
Rebecca Jones, Project Management Assistant I
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Designee for

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Table of Contents

Definitions/Glossary

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

Job ID: 480-200395-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low 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

Case Narrative

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

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Job ID: 480-200395-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-200395-1

Comments
No additional comments.

Receipt
The samples were received on 8/4/2022 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.3º C, 3.6º C and 4.1º C.

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

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to the abundance of non-target analytes: PRMW-5S (480-200395-7). Elevated reporting limits (RLs) are provided.

Method 8270D: 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: PRMW-3S (480-200395-4[MSD]). 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
No analytical or quality issues were noted, other than those described 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 - Penn Yan Water St. MGP

Job ID: 480-200395-1

Client Sample ID: PRMW-1S — Lab Sample ID: 480-200395-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0094	J B	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-2S — Lab Sample ID: 480-200395-2

No Detections.

Client Sample ID: PRMW-2D — Lab Sample ID: 480-200395-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0060	J B	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-3S — Lab Sample ID: 480-200395-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.011	F1	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-3D — Lab Sample ID: 480-200395-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0059	J B	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-4S — Lab Sample ID: 480-200395-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.011	B	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-5S — Lab Sample ID: 480-200395-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	4.5		1.0	0.74	ug/L	1		8260C	Total/NA
Toluene	0.69	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	2.2		2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	14	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	2.7	J	25	1.9	ug/L	5		8270D	Total/NA
Fluorene	4.9	J	25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	6.4	J	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	2.8	J	25	2.2	ug/L	5		8270D	Total/NA
Cyanide, Total	0.045		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-5D — Lab Sample ID: 480-200395-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0093	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-6S — Lab Sample ID: 480-200395-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0074	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-6D — Lab Sample ID: 480-200395-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0057	J	0.010	0.0050	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: New York State Electric & Gas
Job ID: 480-200395-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: TMW-1D — Lab Sample ID: 480-200395-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0073	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: TMW-2DR — Lab Sample ID: 480-200395-12

No Detections.

Client Sample ID: DUP-20220804 — Lab Sample ID: 480-200395-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0060	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 480-200395-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0062	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-200395-15

No Detections.

Client Sample ID: TB-02 — Lab Sample ID: 480-200395-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PRMW-1S
Lab Sample ID: 480-200395-1

Date Collected: 08/04/22 11:55
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 17:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 17:31	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 17:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*08/05/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*08/05/22 17:31*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/05/22 17:31*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/05/22 17:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 21:23	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 21:23	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 21:23	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 21:23	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 21:23	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 21:23	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:23	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:23	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 21:23	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 21:23	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*48 - 120*	*08/05/22 14:39*	*08/09/22 21:23*	*1*
Nitrobenzene-d5 (Surr)	*60*		*46 - 120*	*08/05/22 14:39*	*08/09/22 21:23*	*1*
p-Terphenyl-d14 (Surr)	*72*		*60 - 148*	*08/05/22 14:39*	*08/09/22 21:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0094**	**J B**	0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:16	1

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

Job ID: 480-200395-1

Client Sample ID: PRMW-2S

Date Collected: 08/04/22 09:20
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 17:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 17:55	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 17:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*08/05/22 17:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 17:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/05/22 17:55*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 17:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 21:51	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 21:51	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 21:51	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 21:51	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 21:51	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 21:51	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:51	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:51	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 21:51	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 21:51	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*48 - 120*	*08/05/22 14:39*	*08/09/22 21:51*	*1*
Nitrobenzene-d5 (Surr)	*74*		*46 - 120*	*08/05/22 14:39*	*08/09/22 21:51*	*1*
p-Terphenyl-d14 (Surr)	*67*		*60 - 148*	*08/05/22 14:39*	*08/09/22 21:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:17	1

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

Job ID: 480-200395-1

Client Sample ID: PRMW-2D

Date Collected: 08/04/22 10:30
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 18:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 18:18	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 18:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/05/22 18:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 18:18*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/05/22 18:18*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 18:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 22:18	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 22:18	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 22:18	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 22:18	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 22:18	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 22:18	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:18	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:18	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 22:18	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 22:18	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*48 - 120*	*08/05/22 14:39*	*08/09/22 22:18*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 120*	*08/05/22 14:39*	*08/09/22 22:18*	*1*
p-Terphenyl-d14 (Surr)	*69*		*60 - 148*	*08/05/22 14:39*	*08/09/22 22:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0060**	**J B**	0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:18	1

Client Sample ID: PRMW-3S
Lab Sample ID: 480-200395-4

Date Collected: 08/04/22 08:50
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 18:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 18:41	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 18:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*08/05/22 18:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 18:41*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*08/05/22 18:41*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 18:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 20:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 20:56	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 20:56	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 20:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 20:56	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 20:56	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 20:56	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 20:56	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 20:56	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 20:56	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*48 - 120*	*08/05/22 14:39*	*08/09/22 20:56*	*1*
Nitrobenzene-d5 (Surr)	*77*		*46 - 120*	*08/05/22 14:39*	*08/09/22 20:56*	*1*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*08/05/22 14:39*	*08/09/22 20:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.011**	**F1**	0.010	0.0050	mg/L		08/12/22 10:22	08/12/22 14:43	1

Client Sample ID: PRMW-3D
Lab Sample ID: 480-200395-5

Date Collected: 08/04/22 10:15
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 19:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 19:04	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 19:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*08/05/22 19:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 19:04*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/05/22 19:04*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 19:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 22:46	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 22:46	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 22:46	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 22:46	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 22:46	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 22:46	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:46	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:46	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 22:46	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 22:46	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*48 - 120*	*08/05/22 14:39*	*08/09/22 22:46*	*1*
Nitrobenzene-d5 (Surr)	*78*		*46 - 120*	*08/05/22 14:39*	*08/09/22 22:46*	*1*
p-Terphenyl-d14 (Surr)	*71*		*60 - 148*	*08/05/22 14:39*	*08/09/22 22:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0059**	**J B**	0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:23	1

Client Sample ID: PRMW-4S
Lab Sample ID: 480-200395-6

Date Collected: 08/04/22 11:25
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 19:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 19:27	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 19:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/05/22 19:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/05/22 19:27*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*08/05/22 19:27*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/05/22 19:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/11/22 16:16	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/11/22 16:16	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/11/22 16:16	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/11/22 16:16	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/11/22 16:16	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/11/22 16:16	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/11/22 16:16	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/11/22 16:16	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/11/22 16:16	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/11/22 16:16	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/11/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*48 - 120*	*08/05/22 14:39*	*08/11/22 16:16*	*1*
Nitrobenzene-d5 (Surr)	*90*		*46 - 120*	*08/05/22 14:39*	*08/11/22 16:16*	*1*
p-Terphenyl-d14 (Surr)	*85*		*60 - 148*	*08/05/22 14:39*	*08/11/22 16:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.011**	**B**	0.010	0.0050	mg/L		08/09/22 11:55	08/11/22 10:22	1

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

Job ID: 480-200395-1

Client Sample ID: PRMW-5S

Date Collected: 08/03/22 11:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**12**		1.0	0.41	ug/L			08/06/22 01:13	1
Ethylbenzene	**4.5**		1.0	0.74	ug/L			08/06/22 01:13	1
Toluene	**0.69**	**J**	1.0	0.51	ug/L			08/06/22 01:13	1
Xylenes, Total	**2.2**		2.0	0.66	ug/L			08/06/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*08/06/22 01:13*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/06/22 01:13*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/06/22 01:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/06/22 01:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**14**	**J**	25	2.1	ug/L		08/05/22 14:39	08/09/22 23:41	5
Acenaphthylene	**2.7**	**J**	25	1.9	ug/L		08/05/22 14:39	08/09/22 23:41	5
Anthracene	ND		25	1.4	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[a]anthracene	ND		25	1.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[a]pyrene	ND		25	2.4	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		08/05/22 14:39	08/09/22 23:41	5
Chrysene	ND		25	1.7	ug/L		08/05/22 14:39	08/09/22 23:41	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		08/05/22 14:39	08/09/22 23:41	5
Fluoranthene	ND		25	2.0	ug/L		08/05/22 14:39	08/09/22 23:41	5
Fluorene	**4.9**	**J**	25	1.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		08/05/22 14:39	08/09/22 23:41	5
Naphthalene	**6.4**	**J**	25	3.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Phenanthrene	**2.8**	**J**	25	2.2	ug/L		08/05/22 14:39	08/09/22 23:41	5
Pyrene	ND		25	1.7	ug/L		08/05/22 14:39	08/09/22 23:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*48 - 120*	*08/05/22 14:39*	*08/09/22 23:41*	*5*
Nitrobenzene-d5 (Surr)	*76*		*46 - 120*	*08/05/22 14:39*	*08/09/22 23:41*	*5*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*08/05/22 14:39*	*08/09/22 23:41*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.045**		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:06	1

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

Job ID: 480-200395-1

Client Sample ID: PRMW-5D

Date Collected: 08/03/22 12:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 01:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 01:37	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 01:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*08/06/22 01:37*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*08/06/22 01:37*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/06/22 01:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/06/22 01:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 00:09	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 00:09	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 00:09	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 00:09	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 00:09	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 00:09	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:09	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 00:09	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 00:09	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*48 - 120*	*08/05/22 14:39*	*08/10/22 00:09*	*1*
Nitrobenzene-d5 (Surr)	*85*		*46 - 120*	*08/05/22 14:39*	*08/10/22 00:09*	*1*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*08/05/22 14:39*	*08/10/22 00:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0093**	**J**	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:08	1

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

Job ID: 480-200395-1

Client Sample ID: PRMW-6S

Date Collected: 08/03/22 12:15
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 02:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 02:00	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 02:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*08/06/22 02:00*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*08/06/22 02:00*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/06/22 02:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/06/22 02:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 00:36	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 00:36	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 00:36	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 00:36	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 00:36	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 00:36	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:36	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 00:36	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 00:36	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*48 - 120*	*08/05/22 14:39*	*08/10/22 00:36*	*1*
Nitrobenzene-d5 (Surr)	*75*		*46 - 120*	*08/05/22 14:39*	*08/10/22 00:36*	*1*
p-Terphenyl-d14 (Surr)	*65*		*60 - 148*	*08/05/22 14:39*	*08/10/22 00:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0074**	**J**	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:09	1

Client Sample ID: PRMW-6D

Date Collected: 08/03/22 10:45
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 02:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 02:24	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 02:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*08/06/22 02:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*08/06/22 02:24*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/06/22 02:24*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/06/22 02:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 01:03	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 01:03	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 01:03	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 01:03	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 01:03	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 01:03	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:03	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 01:03	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 01:03	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*48 - 120*	*08/05/22 14:39*	*08/10/22 01:03*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*08/05/22 14:39*	*08/10/22 01:03*	*1*
p-Terphenyl-d14 (Surr)	*80*		*60 - 148*	*08/05/22 14:39*	*08/10/22 01:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0057**	**J**	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:14	1

Client Sample ID: TMW-1D
Lab Sample ID: 480-200395-11

Date Collected: 08/03/22 13:45
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 02:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 02:48	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 02:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*08/06/22 02:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*08/06/22 02:48*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/06/22 02:48*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/06/22 02:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 01:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 01:30	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 01:30	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 01:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 01:30	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 01:30	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:30	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 01:30	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 01:30	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*48 - 120*	*08/05/22 14:39*	*08/10/22 01:30*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 120*	*08/05/22 14:39*	*08/10/22 01:30*	*1*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*08/05/22 14:39*	*08/10/22 01:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0073**	**J**	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:15	1

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

Job ID: 480-200395-1

Client Sample ID: TMW-2DR

Date Collected: 08/03/22 13:25
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 03:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 03:11	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 03:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*08/06/22 03:11*	*1*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*08/06/22 03:11*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/06/22 03:11*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/06/22 03:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 01:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 01:58	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 01:58	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 01:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 01:58	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 01:58	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:58	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 01:58	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 01:58	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*08/05/22 14:39*	*08/10/22 01:58*	*1*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*	*08/05/22 14:39*	*08/10/22 01:58*	*1*
p-Terphenyl-d14 (Surr)	*71*		*60 - 148*	*08/05/22 14:39*	*08/10/22 01:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:16	1

Client Sample ID: DUP-20220804
Lab Sample ID: 480-200395-13

Date Collected: 08/04/22 00:00
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 19:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 19:50	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 19:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*08/05/22 19:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*08/05/22 19:50*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/05/22 19:50*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/05/22 19:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 02:25	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 02:25	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 02:25	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 02:25	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 02:25	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 02:25	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:25	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 02:25	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 02:25	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*48 - 120*	*08/05/22 14:39*	*08/10/22 02:25*	*1*
Nitrobenzene-d5 (Surr)	*74*		*46 - 120*	*08/05/22 14:39*	*08/10/22 02:25*	*1*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*08/05/22 14:39*	*08/10/22 02:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0060**	**J**	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:18	1

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

Job ID: 480-200395-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 08/04/22 12:30
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 20:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 20:13	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 20:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*08/05/22 20:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/05/22 20:13*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*08/05/22 20:13*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/05/22 20:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 02:53	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 02:53	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 02:53	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 02:53	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 02:53	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 02:53	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:53	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:53	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 02:53	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 02:53	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*08/05/22 14:39*	*08/10/22 02:53*	*1*
Nitrobenzene-d5 (Surr)	*81*		*46 - 120*	*08/05/22 14:39*	*08/10/22 02:53*	*1*
p-Terphenyl-d14 (Surr)	*84*		*60 - 148*	*08/05/22 14:39*	*08/10/22 02:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0062**	**J**	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:19	1

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

Job ID: 480-200395-1

Client Sample ID: TB-01
Date Collected: 08/04/22 00:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 03:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 03:36	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 03:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*08/06/22 03:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*08/06/22 03:36*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/06/22 03:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/06/22 03:36*	*1*

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

Job ID: 480-200395-1

Client Sample ID: TB-02
Date Collected: 08/04/22 00:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 04:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 04:00	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 04:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*08/06/22 04:00*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*08/06/22 04:00*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/06/22 04:00*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/06/22 04:00*	*1*

Surrogate Summary

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

Job ID: 480-200395-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-200395-1	PRMW-1S	94	99	103	89
480-200395-2	PRMW-2S	97	101	104	92
480-200395-3	PRMW-2D	98	101	104	92
480-200395-4	PRMW-3S	103	101	106	92
480-200395-4 MS	PRMW-3S	96	104	102	95
480-200395-4 MSD	PRMW-3S	94	103	98	96
480-200395-5	PRMW-3D	97	101	103	92
480-200395-6	PRMW-4S	98	100	105	89
480-200395-7	PRMW-5S	109	94	99	97
480-200395-8	PRMW-5D	110	89	99	96
480-200395-9	PRMW-6S	110	93	101	100
480-200395-10	PRMW-6D	111	92	99	97
480-200395-11	TMW-1D	113	95	103	98
480-200395-12	TMW-2DR	109	84	102	94
480-200395-13	DUP-20220804	102	103	104	93
480-200395-14	EQUIPMENT BLANK	100	100	106	90
480-200395-15	TB-01	111	96	101	98
480-200395-16	TB-02	112	87	102	94
LCS 480-636378/6	Lab Control Sample	97	104	103	94
LCS 480-636382/6	Lab Control Sample	106	97	102	100
MB 480-636378/8	Method Blank	99	101	101	90
MB 480-636382/8	Method Blank	110	94	100	97

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(60-148)
480-200395-1	PRMW-1S	66	60	72
480-200395-2	PRMW-2S	81	74	67
480-200395-3	PRMW-2D	87	79	69
480-200395-4	PRMW-3S	82	77	77
480-200395-4 MS	PRMW-3S	88	88	61
480-200395-4 MSD	PRMW-3S	90	91	59 S1-
480-200395-5	PRMW-3D	86	78	71
480-200395-6	PRMW-4S	102	90	85
480-200395-7	PRMW-5S	88	76	78
480-200395-8	PRMW-5D	93	85	78
480-200395-9	PRMW-6S	83	75	65
480-200395-10	PRMW-6D	100	89	80
480-200395-11	TMW-1D	99	87	78
480-200395-12	TMW-2DR	92	80	71
480-200395-13	DUP-20220804	82	74	77

Surrogate Summary

Client: New York State Electric & Gas
Job ID: 480-200395-1
Project/Site: NYSEG - Penn Yan Water St. MGP

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(60-148)
480-200395-14	EQUIPMENT BLANK	92	81	84
LCS 480-636393/2-A	Lab Control Sample	89	90	85
MB 480-636393/1-A	Method Blank	93	85	89

Surrogate Legend

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

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

Job ID: 480-200395-1

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

Lab Sample ID: MB 480-636378/8
Matrix: Water
Analysis Batch: 636378

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			08/05/22 16:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 16:55	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 16:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*08/05/22 16:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 16:55*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/05/22 16:55*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/05/22 16:55*	*1*

Lab Sample ID: LCS 480-636378/6
Matrix: Water
Analysis Batch: 636378

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	27.0		ug/L		108	71 - 124
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Toluene	25.0	25.1		ug/L		101	80 - 122
Xylenes, Total	50.0	52.4		ug/L		105	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 480-200395-4 MS
Matrix: Water
Analysis Batch: 636378

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		25.0	30.7		ug/L		123	71 - 124
Ethylbenzene	ND		25.0	29.1		ug/L		116	77 - 123
Toluene	ND		25.0	29.7		ug/L		119	80 - 122
Xylenes, Total	ND		50.0	60.6		ug/L		121	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: 480-200395-4 MSD
Matrix: Water
Analysis Batch: 636378

Client Sample ID: PRMW-3S
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	29.0		ug/L		116	71 - 124	6	13
Ethylbenzene	ND		25.0	29.4		ug/L		117	77 - 123	1	15
Toluene	ND		25.0	28.9		ug/L		116	80 - 122	3	15
Xylenes, Total	ND		50.0	59.8		ug/L		120	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 480-636382/8
Matrix: Water
Analysis Batch: 636382

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			08/06/22 00:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 00:49	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 00:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 00:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*08/06/22 00:49*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/06/22 00:49*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/06/22 00:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/06/22 00:49*	*1*

Lab Sample ID: LCS 480-636382/6
Matrix: Water
Analysis Batch: 636382

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	26.3		ug/L		105	71 - 124		
Ethylbenzene			25.0	24.8		ug/L		99	77 - 123		
Toluene			25.0	24.5		ug/L		98	80 - 122		
Xylenes, Total			50.0	48.7		ug/L		97	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 480-636393/1-A
Matrix: Water
Analysis Batch: 636717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 19:05	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 19:05	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 19:05	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 19:05	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 19:05	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 19:05	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 19:05	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 19:05	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 19:05	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 19:05	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 19:05	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 19:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 19:05	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 19:05	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 19:05	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 19:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*48 - 120*	*08/05/22 14:39*	*08/09/22 19:05*	*1*
Nitrobenzene-d5 (Surr)	*85*		*46 - 120*	*08/05/22 14:39*	*08/09/22 19:05*	*1*
p-Terphenyl-d14 (Surr)	*89*		*60 - 148*	*08/05/22 14:39*	*08/09/22 19:05*	*1*

Lab Sample ID: LCS 480-636393/2-A
Matrix: Water
Analysis Batch: 636717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	29.0		ug/L		91	60 - 120
Acenaphthylene	32.0	30.0		ug/L		94	63 - 120
Anthracene	32.0	32.7		ug/L		102	67 - 120
Benzo[a]anthracene	32.0	29.4		ug/L		92	70 - 121
Benzo[a]pyrene	32.0	29.1		ug/L		91	60 - 123
Benzo[b]fluoranthene	32.0	30.3		ug/L		95	66 - 126
Benzo[g,h,i]perylene	32.0	28.5		ug/L		89	66 - 150
Benzo[k]fluoranthene	32.0	28.0		ug/L		87	65 - 124
Chrysene	32.0	29.0		ug/L		91	69 - 120
Dibenz(a,h)anthracene	32.0	29.1		ug/L		91	65 - 135
Fluoranthene	32.0	33.8		ug/L		106	69 - 126
Fluorene	32.0	31.0		ug/L		97	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	29.3		ug/L		91	69 - 146
Naphthalene	32.0	27.4		ug/L		86	57 - 120
Phenanthrene	32.0	31.4		ug/L		98	68 - 120
Pyrene	32.0	31.5		ug/L		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*48 - 120*
Nitrobenzene-d5 (Surr)	*90*		*46 - 120*
p-Terphenyl-d14 (Surr)	*85*		*60 - 148*

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

Lab Sample ID: 480-200395-4 MS
Matrix: Water
Analysis Batch: 636717

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 636393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		32.0	28.7		ug/L		90	48 - 120
Acenaphthylene	ND		32.0	29.5		ug/L		92	63 - 120
Anthracene	ND		32.0	31.8		ug/L		99	65 - 122
Benzo[a]anthracene	ND		32.0	17.8		ug/L		56	43 - 124
Benzo[a]pyrene	ND		32.0	17.6		ug/L		55	23 - 125
Benzo[b]fluoranthene	ND		32.0	17.5		ug/L		55	27 - 127
Benzo[g,h,i]perylene	ND		32.0	17.2		ug/L		54	16 - 147
Benzo[k]fluoranthene	ND		32.0	17.3		ug/L		54	20 - 124
Chrysene	ND		32.0	18.1		ug/L		57	44 - 122
Dibenz(a,h)anthracene	ND		32.0	18.1		ug/L		57	16 - 139
Fluoranthene	ND		32.0	28.0		ug/L		88	63 - 129
Fluorene	ND		32.0	31.3		ug/L		98	62 - 120
Indeno[1,2,3-cd]pyrene	ND		32.0	17.8		ug/L		56	16 - 140
Naphthalene	ND		32.0	27.0		ug/L		84	45 - 120
Phenanthrene	ND		32.0	30.6		ug/L		96	65 - 122
Pyrene	ND		32.0	26.2		ug/L		82	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*48 - 120*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*
p-Terphenyl-d14 (Surr)	*61*		*60 - 148*

Lab Sample ID: 480-200395-4 MSD
Matrix: Water
Analysis Batch: 636717

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 636393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		32.0	28.9		ug/L		90	48 - 120	1	24
Acenaphthylene	ND		32.0	30.5		ug/L		95	63 - 120	3	18
Anthracene	ND		32.0	30.5		ug/L		95	65 - 122	4	15
Benzo[a]anthracene	ND		32.0	17.5		ug/L		55	43 - 124	2	15
Benzo[a]pyrene	ND		32.0	17.0		ug/L		53	23 - 125	3	15
Benzo[b]fluoranthene	ND		32.0	16.8		ug/L		53	27 - 127	4	15
Benzo[g,h,i]perylene	ND		32.0	16.6		ug/L		52	16 - 147	3	15
Benzo[k]fluoranthene	ND		32.0	16.3		ug/L		51	20 - 124	6	22
Chrysene	ND		32.0	17.6		ug/L		55	44 - 122	3	15
Dibenz(a,h)anthracene	ND		32.0	17.7		ug/L		55	16 - 139	2	15
Fluoranthene	ND		32.0	27.5		ug/L		86	63 - 129	2	15
Fluorene	ND		32.0	30.5		ug/L		95	62 - 120	3	15
Indeno[1,2,3-cd]pyrene	ND		32.0	17.2		ug/L		54	16 - 140	4	15
Naphthalene	ND		32.0	28.2		ug/L		88	45 - 120	4	29
Phenanthrene	ND		32.0	29.6		ug/L		93	65 - 122	3	15
Pyrene	ND		32.0	25.7		ug/L		80	58 - 128	2	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*48 - 120*
Nitrobenzene-d5 (Surr)	*91*		*46 - 120*
p-Terphenyl-d14 (Surr)	*59*	*S1-*	*60 - 148*

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-636562/1-A
Matrix: Water
Analysis Batch: 636686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00554	J	0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 10:48	1

Lab Sample ID: LCS 480-636562/2-A
Matrix: Water
Analysis Batch: 636686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.376		mg/L		94	90 - 110

Lab Sample ID: LCS 480-636562/3-A
Matrix: Water
Analysis Batch: 636686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.227		mg/L		91	90 - 110

Lab Sample ID: 480-200395-5 MS
Matrix: Water
Analysis Batch: 636686

Client Sample ID: PRMW-3D
Prep Type: Total/NA
Prep Batch: 636562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0059	J B	0.00500	0.0114		mg/L		110	90 - 110

Lab Sample ID: MB 480-636687/1-A
Matrix: Water
Analysis Batch: 637021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00627	J	0.010	0.0050	mg/L		08/09/22 11:55	08/11/22 10:17	1

Lab Sample ID: LCS 480-636687/2-A
Matrix: Water
Analysis Batch: 637021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.392		mg/L		98	90 - 110

Lab Sample ID: LCS 480-636687/3-A
Matrix: Water
Analysis Batch: 637021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.235		mg/L		94	90 - 110

Lab Sample ID: 480-200395-6 DU
Matrix: Water
Analysis Batch: 637021

Client Sample ID: PRMW-4S
Prep Type: Total/NA
Prep Batch: 636687

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.011	B	0.0113		mg/L		0.9	15

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-636818/1-A
Matrix: Water
Analysis Batch: 636999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 08:56	1

Lab Sample ID: LCS 480-636818/2-A
Matrix: Water
Analysis Batch: 636999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.403		mg/L		101	90 - 110

Lab Sample ID: LCS 480-636818/3-A
Matrix: Water
Analysis Batch: 636999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636818

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: MB 480-637211/1-A
Matrix: Water
Analysis Batch: 637275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 637211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/12/22 10:22	08/12/22 14:13	1

Lab Sample ID: LCS 480-637211/2-A
Matrix: Water
Analysis Batch: 637275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 637211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.396		mg/L		99	90 - 110

Lab Sample ID: LCS 480-637211/3-A
Matrix: Water
Analysis Batch: 637275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 637211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Lab Sample ID: 480-200395-4 MS
Matrix: Water
Analysis Batch: 637275

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 637211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.011	F1	0.00500	0.0114	F1	mg/L		14	90 - 110

Lab Sample ID: 480-200395-4 MSD
Matrix: Water
Analysis Batch: 637275

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 637211

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.011	F1	0.00500	0.0132	F1	mg/L		50	90 - 110	15	15

GC/MS VOA

Analysis Batch: 636378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-1	PRMW-1S	Total/NA	Water	8260C	
480-200395-2	PRMW-2S	Total/NA	Water	8260C	
480-200395-3	PRMW-2D	Total/NA	Water	8260C	
480-200395-4	PRMW-3S	Total/NA	Water	8260C	
480-200395-5	PRMW-3D	Total/NA	Water	8260C	
480-200395-6	PRMW-4S	Total/NA	Water	8260C	
480-200395-13	DUP-20220804	Total/NA	Water	8260C	
480-200395-14	EQUIPMENT BLANK	Total/NA	Water	8260C	
MB 480-636378/8	Method Blank	Total/NA	Water	8260C	
LCS 480-636378/6	Lab Control Sample	Total/NA	Water	8260C	
480-200395-4 MS	PRMW-3S	Total/NA	Water	8260C	
480-200395-4 MSD	PRMW-3S	Total/NA	Water	8260C	

Analysis Batch: 636382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-7	PRMW-5S	Total/NA	Water	8260C	
480-200395-8	PRMW-5D	Total/NA	Water	8260C	
480-200395-9	PRMW-6S	Total/NA	Water	8260C	
480-200395-10	PRMW-6D	Total/NA	Water	8260C	
480-200395-11	TMW-1D	Total/NA	Water	8260C	
480-200395-12	TMW-2DR	Total/NA	Water	8260C	
480-200395-15	TB-01	Total/NA	Water	8260C	
480-200395-16	TB-02	Total/NA	Water	8260C	
MB 480-636382/8	Method Blank	Total/NA	Water	8260C	
LCS 480-636382/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 636393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-1	PRMW-1S	Total/NA	Water	3510C	
480-200395-2	PRMW-2S	Total/NA	Water	3510C	
480-200395-3	PRMW-2D	Total/NA	Water	3510C	
480-200395-4	PRMW-3S	Total/NA	Water	3510C	
480-200395-5	PRMW-3D	Total/NA	Water	3510C	
480-200395-6	PRMW-4S	Total/NA	Water	3510C	
480-200395-7	PRMW-5S	Total/NA	Water	3510C	
480-200395-8	PRMW-5D	Total/NA	Water	3510C	
480-200395-9	PRMW-6S	Total/NA	Water	3510C	
480-200395-10	PRMW-6D	Total/NA	Water	3510C	
480-200395-11	TMW-1D	Total/NA	Water	3510C	
480-200395-12	TMW-2DR	Total/NA	Water	3510C	
480-200395-13	DUP-20220804	Total/NA	Water	3510C	
480-200395-14	EQUIPMENT BLANK	Total/NA	Water	3510C	
MB 480-636393/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-636393/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-200395-4 MS	PRMW-3S	Total/NA	Water	3510C	
480-200395-4 MSD	PRMW-3S	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 636717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-1	PRMW-1S	Total/NA	Water	8270D	636393
480-200395-2	PRMW-2S	Total/NA	Water	8270D	636393
480-200395-3	PRMW-2D	Total/NA	Water	8270D	636393
480-200395-4	PRMW-3S	Total/NA	Water	8270D	636393
480-200395-5	PRMW-3D	Total/NA	Water	8270D	636393
480-200395-7	PRMW-5S	Total/NA	Water	8270D	636393
480-200395-8	PRMW-5D	Total/NA	Water	8270D	636393
480-200395-9	PRMW-6S	Total/NA	Water	8270D	636393
480-200395-10	PRMW-6D	Total/NA	Water	8270D	636393
480-200395-11	TMW-1D	Total/NA	Water	8270D	636393
480-200395-12	TMW-2DR	Total/NA	Water	8270D	636393
480-200395-13	DUP-20220804	Total/NA	Water	8270D	636393
480-200395-14	EQUIPMENT BLANK	Total/NA	Water	8270D	636393
MB 480-636393/1-A	Method Blank	Total/NA	Water	8270D	636393
LCS 480-636393/2-A	Lab Control Sample	Total/NA	Water	8270D	636393
480-200395-4 MS	PRMW-3S	Total/NA	Water	8270D	636393
480-200395-4 MSD	PRMW-3S	Total/NA	Water	8270D	636393

Analysis Batch: 637094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-6	PRMW-4S	Total/NA	Water	8270D	636393

General Chemistry

Prep Batch: 636562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-1	PRMW-1S	Total/NA	Water	9012B	
480-200395-2	PRMW-2S	Total/NA	Water	9012B	
480-200395-3	PRMW-2D	Total/NA	Water	9012B	
480-200395-5	PRMW-3D	Total/NA	Water	9012B	
MB 480-636562/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-636562/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-636562/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-200395-5 MS	PRMW-3D	Total/NA	Water	9012B	

Analysis Batch: 636686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-1	PRMW-1S	Total/NA	Water	9012B	636562
480-200395-2	PRMW-2S	Total/NA	Water	9012B	636562
480-200395-3	PRMW-2D	Total/NA	Water	9012B	636562
480-200395-5	PRMW-3D	Total/NA	Water	9012B	636562
MB 480-636562/1-A	Method Blank	Total/NA	Water	9012B	636562
LCS 480-636562/2-A	Lab Control Sample	Total/NA	Water	9012B	636562
LCS 480-636562/3-A	Lab Control Sample	Total/NA	Water	9012B	636562
480-200395-5 MS	PRMW-3D	Total/NA	Water	9012B	636562

Prep Batch: 636687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-6	PRMW-4S	Total/NA	Water	9012B	
MB 480-636687/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-636687/2-A	Lab Control Sample	Total/NA	Water	9012B	

General Chemistry (Continued)

Prep Batch: 636687 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-636687/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-200395-6 DU	PRMW-4S	Total/NA	Water	9012B	

Prep Batch: 636818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-7	PRMW-5S	Total/NA	Water	9012B	
480-200395-8	PRMW-5D	Total/NA	Water	9012B	
480-200395-9	PRMW-6S	Total/NA	Water	9012B	
480-200395-10	PRMW-6D	Total/NA	Water	9012B	
480-200395-11	TMW-1D	Total/NA	Water	9012B	
480-200395-12	TMW-2DR	Total/NA	Water	9012B	
480-200395-13	DUP-20220804	Total/NA	Water	9012B	
480-200395-14	EQUIPMENT BLANK	Total/NA	Water	9012B	
MB 480-636818/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-636818/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-636818/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 636999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-7	PRMW-5S	Total/NA	Water	9012B	636818
480-200395-8	PRMW-5D	Total/NA	Water	9012B	636818
480-200395-9	PRMW-6S	Total/NA	Water	9012B	636818
480-200395-10	PRMW-6D	Total/NA	Water	9012B	636818
480-200395-11	TMW-1D	Total/NA	Water	9012B	636818
480-200395-12	TMW-2DR	Total/NA	Water	9012B	636818
480-200395-13	DUP-20220804	Total/NA	Water	9012B	636818
480-200395-14	EQUIPMENT BLANK	Total/NA	Water	9012B	636818
MB 480-636818/1-A	Method Blank	Total/NA	Water	9012B	636818
LCS 480-636818/2-A	Lab Control Sample	Total/NA	Water	9012B	636818
LCS 480-636818/3-A	Lab Control Sample	Total/NA	Water	9012B	636818

Analysis Batch: 637021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-6	PRMW-4S	Total/NA	Water	9012B	636687
MB 480-636687/1-A	Method Blank	Total/NA	Water	9012B	636687
LCS 480-636687/2-A	Lab Control Sample	Total/NA	Water	9012B	636687
LCS 480-636687/3-A	Lab Control Sample	Total/NA	Water	9012B	636687
480-200395-6 DU	PRMW-4S	Total/NA	Water	9012B	636687

Prep Batch: 637211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-4	PRMW-3S	Total/NA	Water	9012B	
MB 480-637211/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-637211/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-637211/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-200395-4 MS	PRMW-3S	Total/NA	Water	9012B	
480-200395-4 MSD	PRMW-3S	Total/NA	Water	9012B	

Analysis Batch: 637275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200395-4	PRMW-3S	Total/NA	Water	9012B	637211

General Chemistry (Continued)

Analysis Batch: 637275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-637211/1-A	Method Blank	Total/NA	Water	9012B	637211
LCS 480-637211/2-A	Lab Control Sample	Total/NA	Water	9012B	637211
LCS 480-637211/3-A	Lab Control Sample	Total/NA	Water	9012B	637211
480-200395-4 MS	PRMW-3S	Total/NA	Water	9012B	637211
480-200395-4 MSD	PRMW-3S	Total/NA	Water	9012B	637211

Lab Chronicle

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

Job ID: 480-200395-1

Client Sample ID: PRMW-1S
Date Collected: 08/04/22 11:55
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 17:31
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/09/22 21:23
Total/NA	Prep	9012B			636562	HJH	EET BUF	08/08/22 13:22
Total/NA	Analysis	9012B		1	636686	HJH	EET BUF	08/09/22 11:16

Client Sample ID: PRMW-2S
Date Collected: 08/04/22 09:20
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 17:55
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/09/22 21:51
Total/NA	Prep	9012B			636562	HJH	EET BUF	08/08/22 13:22
Total/NA	Analysis	9012B		1	636686	HJH	EET BUF	08/09/22 11:17

Client Sample ID: PRMW-2D
Date Collected: 08/04/22 10:30
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 18:18
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/09/22 22:18
Total/NA	Prep	9012B			636562	HJH	EET BUF	08/08/22 13:22
Total/NA	Analysis	9012B		1	636686	HJH	EET BUF	08/09/22 11:18

Client Sample ID: PRMW-3S
Date Collected: 08/04/22 08:50
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 18:41
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/09/22 20:56
Total/NA	Prep	9012B			637211	HJH	EET BUF	08/12/22 10:22
Total/NA	Analysis	9012B		1	637275	HJH	EET BUF	08/12/22 14:43

Client Sample ID: PRMW-3D
Date Collected: 08/04/22 10:15
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 19:04

Lab Chronicle

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

Job ID: 480-200395-1

Client Sample ID: PRMW-3D
Date Collected: 08/04/22 10:15
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/09/22 22:46
Total/NA	Prep	9012B			636562	HJH	EET BUF	08/08/22 13:22
Total/NA	Analysis	9012B		1	636686	HJH	EET BUF	08/09/22 11:23

Client Sample ID: PRMW-4S
Date Collected: 08/04/22 11:25
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 19:27
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	637094	PJQ	EET BUF	08/11/22 16:16
Total/NA	Prep	9012B			636687	HJH	EET BUF	08/09/22 11:55
Total/NA	Analysis	9012B		1	637021	DLG	EET BUF	08/11/22 10:22

Client Sample ID: PRMW-5S
Date Collected: 08/03/22 11:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 01:13
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		5	636717	PJQ	EET BUF	08/09/22 23:41
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:06

Client Sample ID: PRMW-5D
Date Collected: 08/03/22 12:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 01:37
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/10/22 00:09
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:08

Client Sample ID: PRMW-6S
Date Collected: 08/03/22 12:15
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 02:00

Client Sample ID: PRMW-6S
Date Collected: 08/03/22 12:15
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/10/22 00:36
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:09

Client Sample ID: PRMW-6D
Date Collected: 08/03/22 10:45
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 02:24
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/10/22 01:03
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:14

Client Sample ID: TMW-1D
Date Collected: 08/03/22 13:45
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 02:48
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/10/22 01:30
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:15

Client Sample ID: TMW-2DR
Date Collected: 08/03/22 13:25
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 03:11
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/10/22 01:58
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:16

Client Sample ID: DUP-20220804
Date Collected: 08/04/22 00:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 19:50

Lab Chronicle

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

Job ID: 480-200395-1

Client Sample ID: DUP-20220804
Date Collected: 08/04/22 00:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/10/22 02:25
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:18

Client Sample ID: EQUIPMENT BLANK
Date Collected: 08/04/22 12:30
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636378	ATG	EET BUF	08/05/22 20:13
Total/NA	Prep	3510C			636393	CMC	EET BUF	08/05/22 14:39
Total/NA	Analysis	8270D		1	636717	PJQ	EET BUF	08/10/22 02:53
Total/NA	Prep	9012B			636818	HJH	EET BUF	08/10/22 10:17
Total/NA	Analysis	9012B		1	636999	DLG	EET BUF	08/11/22 09:19

Client Sample ID: TB-01
Date Collected: 08/04/22 00:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 03:36

Client Sample ID: TB-02
Date Collected: 08/04/22 00:00
Date Received: 08/04/22 16:30

Lab Sample ID: 480-200395-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	636382	CR	EET BUF	08/06/22 04:00

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: 480-200395-1
Project/Site: NYSEG - Penn Yan Water St. MGP

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
Project/Site: NYSEG - Penn Yan Water St. MGP

Job ID: 480-200395-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	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
Project/Site: NYSEG - Penn Yan Water St. MGP

Job ID: 480-200395-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-200395-1	PRMW-1S	Water	08/04/22 11:55	08/04/22 16:30
480-200395-2	PRMW-2S	Water	08/04/22 09:20	08/04/22 16:30
480-200395-3	PRMW-2D	Water	08/04/22 10:30	08/04/22 16:30
480-200395-4	PRMW-3S	Water	08/04/22 08:50	08/04/22 16:30
480-200395-5	PRMW-3D	Water	08/04/22 10:15	08/04/22 16:30
480-200395-6	PRMW-4S	Water	08/04/22 11:25	08/04/22 16:30
480-200395-7	PRMW-5S	Water	08/03/22 11:00	08/04/22 16:30
480-200395-8	PRMW-5D	Water	08/03/22 12:00	08/04/22 16:30
480-200395-9	PRMW-6S	Water	08/03/22 12:15	08/04/22 16:30
480-200395-10	PRMW-6D	Water	08/03/22 10:45	08/04/22 16:30
480-200395-11	TMW-1D	Water	08/03/22 13:45	08/04/22 16:30
480-200395-12	TMW-2DR	Water	08/03/22 13:25	08/04/22 16:30
480-200395-13	DUP-20220804	Water	08/04/22 00:00	08/04/22 16:30
480-200395-14	EQUIPMENT BLANK	Water	08/04/22 12:30	08/04/22 16:30
480-200395-15	TB-01	Water	08/04/22 00:00	08/04/22 16:30
480-200395-16	TB-02	Water	08/04/22 00:00	08/04/22 16:30

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: AJS, KCF	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-175907-35395.1
Client Contact: Mr. John Ruspantini	Phone: 716-909-9063	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: 18 Link Drive	Due Date Requested:			
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4505830753			
Email: jjruspantini@nyseg.com	WO #: NYSEG/John Ruspantini			
Project Name: ARCADIS/NYSEG - Penn Yan Water St. MGP	Project #: 48023403			
Site:	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
T - TSP Dodecahydrate
U - Acetone
4A
4-5
:ma
:er (specify)

480-200395 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - Cyanide, Total	Total Numb	Special Instructions/Note:
			Preservation Code:				N	A	B		
PRMW-1S	8/4/22	1155	G	Water	N	N	X	X	X	6	
PRMW-2S	8/4/22	0920	G	Water	N	N	X	X	X	6	
PRMW-2D	8/4/22	1030	G	Water	N	N	X	X	X	6	
PRMW-3S	8/4/22	0850	G	Water	N	N	X	X	X	6	
PRMW-3D	8/4/22	1015	G	Water	N	N	X	X	X	6	
PRMW-4S	8/4/22	1125	G	Water	N	N	X	X	X	6	
PRMW-5S	8/3/22	1100	G	Water	N	N	X	X	X	6	
PRMW-5D	8/3/22	1200	G	Water	N	N	X	X	X	6	
PRMW-6S	8/3/22	1215	G	Water	N	N	X	X	X	6	
PRMW-6D	8/3/22	1045	G	Water	N	N	X	X	X	6	
TMW-1D	8/3/22	1345	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
Adam Svensson	8/4/22 1530	ARCADIS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				8/4/22 1670	TMO

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

Cooler Temperature(s) °C and Other Remarks: 4.1 3.6 3.3 #1 ICE

Ver: 06/08/2021

8/16/2022

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-175907-35395.2
Client Contact: Mr. John Ruspantini	Phone:	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: 18 Link Drive	Due Date Requested:			
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4505830753			
Email: jjruspantini@nyseg.com	WO #: NYSEG/John Ruspantini			
Project Name: ARCADIS/NYSEG - Penn Yan Water St. MGP	Project #: 48023403			
Site:	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)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	B		
TMW-2DR	8/3/22	1325	G	Water	N	N	X	X	X	6	
PRMW-35-MS	8/4/22	0850	G	Water	N	Y	X	X	X	6	
PRMW-35-MSD	8/4/22	0850	G	Water	N	Y	X	X	X	6	
DUP-20220804	8/4/22	—	G	Water	N	N	X	X	X	6	
Equipment Blank	8/4/22	1230	G	Water	N	N	X	X	X	6	
				Water							
Trip Blank -01	7/20/22	—	G	Water	N	N		X		2	
Trip Blank -02	7/20/22	—	G	Water	N	N		X		2	

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
Adam Svensson	8/4/22 1530	ARCADIS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/4/22 1620	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: 480-200395-1

Login Number: 200395
List Number: 1
Creator: Stopa, Erik S

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.	N/A	
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 # 480-200395-1

Analyses Performed By:
Eurofins Buffalo
Amherst, New York

Report # 46583R
Review Level: Tier III
Project: 30126623.2

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-200395-1 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	480-200395-1	Water	08/04/22		X	X	X
PRMW-2S	480-200395-2	Water	08/04/22		X	X	X
PRMW-2D	480-200395-3	Water	08/04/22		X	X	X
PRMW-3S	480-200395-4	Water	08/04/22		X	X	X
PRMW-3D	480-200395-5	Water	08/04/22		X	X	X
PRMW-4S	480-200395-6	Water	08/04/22		X	X	X
PRMW-5S	480-200395-7	Water	08/03/22		X	X	X
PRMW-5D	480-200395-8	Water	08/03/22		X	X	X
PRMW-6S	480-200395-9	Water	08/03/22		X	X	X
PRMW-6D	480-200395-10	Water	08/03/22		X	X	X
TMW-1D	480-200395-11	Water	08/03/22		X	X	X
TMW-2DR	480-200395-12	Water	08/03/22		X	X	X
DUP-20220804	480-200395-13	Water	08/04/22	PRMW-3S	X	X	X
EQUIPMENT BLANK	480-200395-14	Water	08/04/22		X	X	X
TB-01	480-200395-15	Water	08/04/22		X		
TB-02	480-200395-16	Water	08/04/22		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.

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		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.

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 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		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-1S	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL
PRMW-2D	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL
PRMW-3S	Cyanide (EB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration
PRMW-3D	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL
PRMW-4S	Cyanide (EB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration
PRMW-5D	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL
PRMW-6S	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL
PRMW-6D	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL
TMW-1D	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL
DUP-20220804	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL

Note:
EB = equipment 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 sample PRMW-3S and PRMW-3D. 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-053122 which is the duplicate sample of PRMS-3S.

Sample ID	Analyte	MS Recovery	MSD Recovery
PRMW-3S	Cyanide	< 30%	< LL but > 30%

Note:
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 > 30%	Non-detect	UJ
	Detect	J
< 30%	Non-detect	R

Control Limit	Sample Result	Qualification
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action

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 PRMW-4S. 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-20220804	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

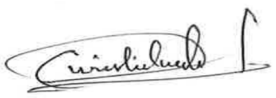
SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]			Noncompliance
					VOC	SVOC	CYANIDE	
480-200395-1	08/04/22	SW846	PRMW-1S	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/04/22	SW846	PRMW-2S	Water	Yes	Yes	Yes	--
	08/04/22	SW846	PRMW-2D	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/04/22	SW846	PRMW-3S	Water	Yes	Yes	No	Cyanide – MS/MSD %Recovery, Blank contamination
	08/04/22	SW846	PRMW-3D	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/04/22	SW846	PRMW-4S	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/03/22	SW846	PRMW-5S	Water	Yes	Yes	Yes	--
	08/03/22	SW846	PRMW-5D	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/03/22	SW846	PRMW-6S	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/03/22	SW846	PRMW-6D	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/03/22	SW846	TMW-1D	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/03/22	SW846	TMW-2DR	Water	Yes	Yes	Yes	--
	08/04/22	SW846	DUP-20220804	Water	Yes	Yes	No	Cyanide – Blank contamination
	08/04/22	SW846	EQUIPMENT BLANK	Water	Yes	Yes	Yes	--
	08/04/22	SW846	TB-01	Water	Yes	--	--	--
	08/04/22	SW846	TB-02	Water	Yes	--	--	--

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: Hrishikesh Upadhyaya

SIGNATURE: 

DATE: August 26, 2022

PEER REVIEW: Joe Houser

DATE: August 29, 2022

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 America

Client Information	Sampler: AJS, KCF	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-175907-35395.1
Client Contact: Mr. John Ruspantini	Phone: 716-909-9063	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: New York State Electric & Gas	PWSID:	Analysis Requested		Job #:

Address: 18 Link Drive	Due Date Requested:
City: Binghamton	TAT Requested (days):
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No
Phone:	PO #: 4505830753
Email: jjruspantini@nyseg.com	WO #: NYSEG/John Ruspantini
Project Name: ARCADIS/NYSEG - Penn Yan Water St. MGP	Project #: 48023403
Site:	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, T - TSP Dodecahydrate, U - Acetone, 4A, 4-5, :ma, :er (specify)

480-200395 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - Cyanide, Total	Total Numb	Special Instructions/Note:
			Preservation Code:				N	A	B		
PRMW-1S	8/4/22	1155	G	Water	N	N	X	X	X	6	
PRMW-2S	8/4/22	0920	G	Water	N	N	X	X	X	6	
PRMW-2D	8/4/22	1030	G	Water	N	N	X	X	X	6	
PRMW-3S	8/4/22	0850	G	Water	N	N	X	X	X	6	
PRMW-3D	8/4/22	1015	G	Water	N	N	X	X	X	6	
PRMW-4S	8/4/22	1125	G	Water	N	N	X	X	X	6	
PRMW-5S	8/3/22	1100	G	Water	N	N	X	X	X	6	
PRMW-5D	8/3/22	1200	G	Water	N	N	X	X	X	6	
PRMW-6S	8/3/22	1215	G	Water	N	N	X	X	X	6	
PRMW-6D	8/3/22	1045	G	Water	N	N	X	X	X	6	
TMW-1D	8/3/22	1345	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
1	Adam Svensson	8/4/22 1530	ARCADIS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/4/22 1670	Company

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

Cooler Temperature(s) °C and Other Remarks: 4.1 3.6 3.3 #1 ICE

Ver: 06/08/2021

08/16/2022

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-175907-35395.2
Client Contact: Mr. John Ruspantini	Phone:	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:	Analysis Requested		Job #:
Address: 18 Link Drive	Due Date 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:
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4505830753			
Email: jjruspantini@nyseg.com	WO #: NYSEG/John Ruspantini			
Project Name: ARCADIS/NYSEG - Penn Yan Water St. MGP	Project #: 48023403			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	B		
TMW-2DR	8/3/22	1325	G	Water	N	N	X	X	X	6	
PRMW-35-MS	8/4/22	0850	G	Water	N	Y	X	X	X	6	
PRMW-35-MSD	8/4/22	0850	G	Water	N	Y	X	X	X	6	
DUP-20220804	8/4/22	—	G	Water	N	N	X	X	X	6	
Equipment Blank	8/4/22	1230	G	Water	N	N	X	X	X	6	
				Water							
Trip Blank -01	7/20/22	—	G	Water	N	N		X		2	
Trip Blank -02	7/20/22	—	G	Water	N	N		X		2	

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
Adam Svensson	8/4/22 1530	ARCADIS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/4/22 1620	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Client Sample ID: PRMW-1S
Lab Sample ID: 480-200395-1

Date Collected: 08/04/22 11:55
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 17:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 17:31	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 17:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*08/05/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*08/05/22 17:31*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/05/22 17:31*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/05/22 17:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 21:23	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 21:23	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 21:23	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 21:23	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 21:23	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 21:23	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 21:23	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:23	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:23	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 21:23	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 21:23	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*48 - 120*	*08/05/22 14:39*	*08/09/22 21:23*	*1*
Nitrobenzene-d5 (Surr)	*60*		*46 - 120*	*08/05/22 14:39*	*08/09/22 21:23*	*1*
p-Terphenyl-d14 (Surr)	*72*		*60 - 148*	*08/05/22 14:39*	*08/09/22 21:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0094~~ ~~J B~~ 0.010 UB		0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:16	1

Client Sample ID: PRMW-2S
Lab Sample ID: 480-200395-2

Date Collected: 08/04/22 09:20
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 17:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 17:55	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 17:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 17:55	1

Client Sample ID: PRMW-2S
Lab Sample ID: 480-200395-2

Date Collected: 08/04/22 09:20
Matrix: Water
Date Received: 08/04/22 16:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*08/05/22 17:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 17:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/05/22 17:55*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 17:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 21:51	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 21:51	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 21:51	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 21:51	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 21:51	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 21:51	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 21:51	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 21:51	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 21:51	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 21:51	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 21:51	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*81*		*48 - 120*	*08/05/22 14:39*	*08/09/22 21:51*	*1*
Nitrobenzene-d5 (Surr)	*74*		*46 - 120*	*08/05/22 14:39*	*08/09/22 21:51*	*1*
p-Terphenyl-d14 (Surr)	*67*		*60 - 148*	*08/05/22 14:39*	*08/09/22 21:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:17	1

Client Sample ID: PRMW-2D
Lab Sample ID: 480-200395-3

Date Collected: 08/04/22 10:30
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 18:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 18:18	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 18:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/05/22 18:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 18:18*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/05/22 18:18*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 18:18*	*1*

Client Sample ID: PRMW-2D
Lab Sample ID: 480-200395-3
Date Collected: 08/04/22 10:30
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 22:18	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 22:18	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 22:18	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 22:18	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 22:18	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 22:18	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 22:18	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:18	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:18	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 22:18	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 22:18	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*48 - 120*	*08/05/22 14:39*	*08/09/22 22:18*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 120*	*08/05/22 14:39*	*08/09/22 22:18*	*1*
p-Terphenyl-d14 (Surr)	*69*		*60 - 148*	*08/05/22 14:39*	*08/09/22 22:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0060~~ ~~J B~~ 0.010 UB		0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:18	1

Client Sample ID: PRMW-3S
Lab Sample ID: 480-200395-4
Date Collected: 08/04/22 08:50
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 18:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 18:41	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 18:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*08/05/22 18:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 18:41*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*08/05/22 18:41*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 18:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 20:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 20:56	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 20:56	1

Client Sample ID: PRMW-3S
Lab Sample ID: 480-200395-4
Date Collected: 08/04/22 08:50
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 20:56	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 20:56	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 20:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 20:56	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 20:56	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 20:56	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 20:56	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 20:56	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 20:56	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*48 - 120*	*08/05/22 14:39*	*08/09/22 20:56*	*1*
Nitrobenzene-d5 (Surr)	*77*		*46 - 120*	*08/05/22 14:39*	*08/09/22 20:56*	*1*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*08/05/22 14:39*	*08/09/22 20:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.011~~	~~F1~~ 0.011 UBJ	0.010	0.0050	mg/L		08/12/22 10:22	08/12/22 14:43	1

Client Sample ID: PRMW-3D
Lab Sample ID: 480-200395-5
Date Collected: 08/04/22 10:15
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 19:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 19:04	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 19:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*08/05/22 19:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/05/22 19:04*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/05/22 19:04*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*08/05/22 19:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/09/22 22:46	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/09/22 22:46	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/09/22 22:46	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/09/22 22:46	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/09/22 22:46	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/09/22 22:46	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/09/22 22:46	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/09/22 22:46	1

Client Sample ID: PRMW-3D
Lab Sample ID: 480-200395-5

Date Collected: 08/04/22 10:15
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/09/22 22:46	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/09/22 22:46	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/09/22 22:46	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/09/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*48 - 120*	*08/05/22 14:39*	*08/09/22 22:46*	*1*
Nitrobenzene-d5 (Surr)	*78*		*46 - 120*	*08/05/22 14:39*	*08/09/22 22:46*	*1*
p-Terphenyl-d14 (Surr)	*71*		*60 - 148*	*08/05/22 14:39*	*08/09/22 22:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0059~~	~~J B~~ 0.010 UB	0.010	0.0050	mg/L		08/08/22 13:22	08/09/22 11:23	1

Client Sample ID: PRMW-4S
Lab Sample ID: 480-200395-6

Date Collected: 08/04/22 11:25
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 19:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 19:27	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 19:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/05/22 19:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/05/22 19:27*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*08/05/22 19:27*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/05/22 19:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/11/22 16:16	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/11/22 16:16	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/11/22 16:16	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/11/22 16:16	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/11/22 16:16	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/11/22 16:16	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/11/22 16:16	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/11/22 16:16	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/11/22 16:16	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/11/22 16:16	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/11/22 16:16	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/11/22 16:16	1

Client Sample ID: PRMW-4S
Lab Sample ID: 480-200395-6

Date Collected: 08/04/22 11:25
Matrix: Water
Date Received: 08/04/22 16:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*102*		*48 - 120*	*08/05/22 14:39*	*08/11/22 16:16*	*1*
Nitrobenzene-d5 (Surr)	*90*		*46 - 120*	*08/05/22 14:39*	*08/11/22 16:16*	*1*
p-Terphenyl-d14 (Surr)	*85*		*60 - 148*	*08/05/22 14:39*	*08/11/22 16:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.011~~	~~B~~ 0.011 UB	0.010	0.0050	mg/L		08/09/22 11:55	08/11/22 10:22	1

Client Sample ID: PRMW-5S
Lab Sample ID: 480-200395-7

Date Collected: 08/03/22 11:00
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**12**		1.0	0.41	ug/L			08/06/22 01:13	1
Ethylbenzene	**4.5**		1.0	0.74	ug/L			08/06/22 01:13	1
Toluene	**0.69**	**J**	1.0	0.51	ug/L			08/06/22 01:13	1
Xylenes, Total	**2.2**		2.0	0.66	ug/L			08/06/22 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*08/06/22 01:13*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/06/22 01:13*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/06/22 01:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/06/22 01:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**14**	**J**	25	2.1	ug/L		08/05/22 14:39	08/09/22 23:41	5
Acenaphthylene	**2.7**	**J**	25	1.9	ug/L		08/05/22 14:39	08/09/22 23:41	5
Anthracene	ND		25	1.4	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[a]anthracene	ND		25	1.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[a]pyrene	ND		25	2.4	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		08/05/22 14:39	08/09/22 23:41	5
Chrysene	ND		25	1.7	ug/L		08/05/22 14:39	08/09/22 23:41	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		08/05/22 14:39	08/09/22 23:41	5
Fluoranthene	ND		25	2.0	ug/L		08/05/22 14:39	08/09/22 23:41	5
Fluorene	**4.9**	**J**	25	1.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		08/05/22 14:39	08/09/22 23:41	5
Naphthalene	**6.4**	**J**	25	3.8	ug/L		08/05/22 14:39	08/09/22 23:41	5
Phenanthrene	**2.8**	**J**	25	2.2	ug/L		08/05/22 14:39	08/09/22 23:41	5
Pyrene	ND		25	1.7	ug/L		08/05/22 14:39	08/09/22 23:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*88*		*48 - 120*	*08/05/22 14:39*	*08/09/22 23:41*	*5*
Nitrobenzene-d5 (Surr)	*76*		*46 - 120*	*08/05/22 14:39*	*08/09/22 23:41*	*5*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*08/05/22 14:39*	*08/09/22 23:41*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.045**		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:06	1

Client Sample ID: PRMW-5D
Lab Sample ID: 480-200395-8

Date Collected: 08/03/22 12:00
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 01:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 01:37	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 01:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*08/06/22 01:37*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*08/06/22 01:37*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/06/22 01:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/06/22 01:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 00:09	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 00:09	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 00:09	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 00:09	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 00:09	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 00:09	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 00:09	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:09	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 00:09	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 00:09	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*48 - 120*	*08/05/22 14:39*	*08/10/22 00:09*	*1*
Nitrobenzene-d5 (Surr)	*85*		*46 - 120*	*08/05/22 14:39*	*08/10/22 00:09*	*1*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*08/05/22 14:39*	*08/10/22 00:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0093~~ ~~J~~ 0.010 UB		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:08	1

Client Sample ID: PRMW-6S
Lab Sample ID: 480-200395-9

Date Collected: 08/03/22 12:15
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 02:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 02:00	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 02:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 02:00	1

Client Sample ID: PRMW-6S
Lab Sample ID: 480-200395-9

Date Collected: 08/03/22 12:15
Matrix: Water
Date Received: 08/04/22 16:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*08/06/22 02:00*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*08/06/22 02:00*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/06/22 02:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/06/22 02:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 00:36	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 00:36	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 00:36	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 00:36	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 00:36	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 00:36	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 00:36	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 00:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 00:36	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 00:36	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 00:36	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*48 - 120*	*08/05/22 14:39*	*08/10/22 00:36*	*1*
Nitrobenzene-d5 (Surr)	*75*		*46 - 120*	*08/05/22 14:39*	*08/10/22 00:36*	*1*
p-Terphenyl-d14 (Surr)	*65*		*60 - 148*	*08/05/22 14:39*	*08/10/22 00:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0074~~ ~~J~~ 0.010 UB		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:09	1

Client Sample ID: PRMW-6D
Lab Sample ID: 480-200395-10

Date Collected: 08/03/22 10:45
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 02:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 02:24	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 02:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*08/06/22 02:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*08/06/22 02:24*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/06/22 02:24*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/06/22 02:24*	*1*

Client Sample ID: PRMW-6D
Lab Sample ID: 480-200395-10
Date Collected: 08/03/22 10:45
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 01:03	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 01:03	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 01:03	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 01:03	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 01:03	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 01:03	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 01:03	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:03	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 01:03	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 01:03	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*48 - 120*	*08/05/22 14:39*	*08/10/22 01:03*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*08/05/22 14:39*	*08/10/22 01:03*	*1*
p-Terphenyl-d14 (Surr)	*80*		*60 - 148*	*08/05/22 14:39*	*08/10/22 01:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0057~~ ~~J~~ 0.010 UB		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:14	1

Client Sample ID: TMW-1D
Lab Sample ID: 480-200395-11
Date Collected: 08/03/22 13:45
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 02:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 02:48	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 02:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*08/06/22 02:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*08/06/22 02:48*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/06/22 02:48*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/06/22 02:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 01:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 01:30	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:30	1

Client Sample ID: TMW-1D
Lab Sample ID: 480-200395-11
Date Collected: 08/03/22 13:45
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 01:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 01:30	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 01:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 01:30	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 01:30	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:30	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 01:30	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 01:30	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*48 - 120*	*08/05/22 14:39*	*08/10/22 01:30*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 120*	*08/05/22 14:39*	*08/10/22 01:30*	*1*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*08/05/22 14:39*	*08/10/22 01:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0073~~ ~~J~~	0.010 UB	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:15	1

Client Sample ID: TMW-2DR
Lab Sample ID: 480-200395-12
Date Collected: 08/03/22 13:25
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 03:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 03:11	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 03:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*08/06/22 03:11*	*1*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*08/06/22 03:11*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/06/22 03:11*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/06/22 03:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 01:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 01:58	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 01:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 01:58	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 01:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 01:58	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 01:58	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 01:58	1

Client Sample ID: TMW-2DR
Lab Sample ID: 480-200395-12
Date Collected: 08/03/22 13:25
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 01:58	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 01:58	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 01:58	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*08/05/22 14:39*	*08/10/22 01:58*	*1*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*	*08/05/22 14:39*	*08/10/22 01:58*	*1*
p-Terphenyl-d14 (Surr)	*71*		*60 - 148*	*08/05/22 14:39*	*08/10/22 01:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:16	1

Client Sample ID: DUP-20220804
Lab Sample ID: 480-200395-13
Date Collected: 08/04/22 00:00
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 19:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 19:50	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 19:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*08/05/22 19:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*08/05/22 19:50*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/05/22 19:50*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/05/22 19:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 02:25	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 02:25	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 02:25	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 02:25	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 02:25	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 02:25	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 02:25	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:25	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 02:25	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 02:25	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:25	1

Client Sample ID: DUP-20220804
Lab Sample ID: 480-200395-13

Date Collected: 08/04/22 00:00
Matrix: Water
Date Received: 08/04/22 16:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*82*		*48 - 120*	*08/05/22 14:39*	*08/10/22 02:25*	*1*
Nitrobenzene-d5 (Surr)	*74*		*46 - 120*	*08/05/22 14:39*	*08/10/22 02:25*	*1*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*08/05/22 14:39*	*08/10/22 02:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0060~~ ~~J~~	0.010 UBJ	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:18	1

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-200395-14

Date Collected: 08/04/22 12:30
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/05/22 20:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/22 20:13	1
Toluene	ND		1.0	0.51	ug/L			08/05/22 20:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/22 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*08/05/22 20:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/05/22 20:13*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*08/05/22 20:13*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/05/22 20:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		08/05/22 14:39	08/10/22 02:53	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/05/22 14:39	08/10/22 02:53	1
Anthracene	ND		5.0	0.28	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		08/05/22 14:39	08/10/22 02:53	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		08/05/22 14:39	08/10/22 02:53	1
Chrysene	ND		5.0	0.33	ug/L		08/05/22 14:39	08/10/22 02:53	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/05/22 14:39	08/10/22 02:53	1
Fluoranthene	ND		5.0	0.40	ug/L		08/05/22 14:39	08/10/22 02:53	1
Fluorene	ND		5.0	0.36	ug/L		08/05/22 14:39	08/10/22 02:53	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		08/05/22 14:39	08/10/22 02:53	1
Naphthalene	ND		5.0	0.76	ug/L		08/05/22 14:39	08/10/22 02:53	1
Phenanthrene	ND		5.0	0.44	ug/L		08/05/22 14:39	08/10/22 02:53	1
Pyrene	ND		5.0	0.34	ug/L		08/05/22 14:39	08/10/22 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*92*		*48 - 120*	*08/05/22 14:39*	*08/10/22 02:53*	*1*
Nitrobenzene-d5 (Surr)	*81*		*46 - 120*	*08/05/22 14:39*	*08/10/22 02:53*	*1*
p-Terphenyl-d14 (Surr)	*84*		*60 - 148*	*08/05/22 14:39*	*08/10/22 02:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0062**	**J**	0.010	0.0050	mg/L		08/10/22 10:17	08/11/22 09:19	1

Client Sample ID: TB-01
Lab Sample ID: 480-200395-15

Date Collected: 08/04/22 00:00
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 03:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 03:36	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 03:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*08/06/22 03:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*08/06/22 03:36*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/06/22 03:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/06/22 03:36*	*1*

Client Sample ID: TB-02
Lab Sample ID: 480-200395-16

Date Collected: 08/04/22 00:00
Matrix: Water
Date Received: 08/04/22 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			08/06/22 04:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/06/22 04:00	1
Toluene	ND		1.0	0.51	ug/L			08/06/22 04:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/06/22 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*08/06/22 04:00*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*08/06/22 04:00*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/06/22 04:00*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/06/22 04:00*	*1*

Attachment 4

Site Inspection Form

Site-Wide Inspection Form

NYSEG Penn Yan Former Manufactured Gas Plant Site (NYSDEC Site #862009)
Penn Yan, New York

Engineering Control (s): Site Cover Inspection Date: August 3, 2022

Item	Yes	No	N/A	Comments
Does the Engineering Control continue to perform as designed?	X			
Does the Engineering Control continue to protect human health and the environment?	X			
Does the Engineering Control comply with requirements established in the SMP?	X			
Has remedial performance criteria been achieved or maintained?	X			
Has sampling and analysis of appropriate media been performed during the monitoring event?	X			Quarterly groundwater monitoring for BTEX, PAHs, and cyanide.
Have there been any modifications made to the remedial or monitoring system?		X		
Does the remedial or monitoring system need to be changed or altered at this time?		X		
Has there been any intrusive activity, excavation, or construction occurred at the site?		X		
Were the activities mentioned above, performed in accordance with the SMP?	X			
Was there a change in the use of the site or were there new structures constructed on the site?	X			Construction of above ground shed for boat rental business.
In case a new occupied structure is constructed or the use of the current building changed, was a vapor intrusion evaluation done?		X		Building is above grade (on cinderblock footers with air gap under building floor).
Were new mitigation systems installed based on monitoring results?			X	
Were the groundwater wells in the monitoring network inspected during this site inspection? If so, were the Monitoring Well Field Inspection Logs Completed?	X			Monitoring well inspection logs were completed and kept in the project file. No deficiencies were noted.

Note: Upon completion of the form any non-conforming items warranting corrective action should be identified here within.

Name of Inspector: Adam Svensson
Inspector's Company: Arcadis

Signature of Inspector: Adam Svensson
Date: 8/3/2022

IMMEDIATELY REPORT ANY FAILURE OR DEFECT TO THE PROJECT MANAGER SO A COUNTERMEASURE PLAN CAN BE IMPLEMENTED.

Attachment 5

Site Inspection Photographic Log

Attachment 5 – Site Inspection Photographic Log

Third Quarter 2022 Groundwater Monitoring Report
New York State Electric Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York

Photograph: 1

Description:
Upland cover in good condition, no repair needed.

Direction: SE

Photograph taken by:
AJS

Date: 8/3/2022

Photograph: 2

Description:
Upland cover in good condition, no repair needed.

Direction: SW

Photograph taken by:
AJS

Date: 8/3/2022

Attachment 5 – Site Inspection Photographic Log

Third Quarter 2022 Groundwater Monitoring Report
New York State Electric Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York

Photograph: 3

Description:
Upland cover in good condition, no repair needed.

Direction: E

Photograph taken by:
AJS

Date: 8/3/2022

Photograph: 4

Description:
Upland cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Attachment 5 – Site Inspection Photographic Log

Third Quarter 2022 Groundwater Monitoring Report
New York State Electric Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York

Photograph: 5

Description:
Upland cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Photograph: 6

Description:
Upland cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Attachment 5 – Site Inspection Photographic Log

Third Quarter 2022 Groundwater Monitoring Report
New York State Electric Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York

Photograph: 7

Description:
Upland cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Photograph: 8

Description:
Upland cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Attachment 5 – Site Inspection Photographic Log

Third Quarter 2022 Groundwater Monitoring Report
New York State Electric Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York

Photograph: 9

Description:
Bank cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Photograph: 10

Description:
Bank cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Attachment 5 – Site Inspection Photographic Log

Third Quarter 2022 Groundwater Monitoring Report
New York State Electric Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York

Photograph: 11

Description:
Bank cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/3/2022

Photograph: 12

Description:
Keuka Lake Outlet water surface at Outlet Control Structure. Biological sheen observed on water surface.

Direction: E

Photograph taken by:
AJS

Date: 8/3/2022

Attachment 6

TMW-2DR Well Installation Log

Date Start/Finish:	7/13/2022	**Northing:**	693431.07	**Well/Boring ID:**	**TMW-2DR**
Drilling Company:	Parratt Wolff	**Easting:**	968990.86	**Client:**	NYSEG
Driller's Name:	Jolann Price	**Casing Elevation:**	719.23 ft AMSL	**Location:**	Penn Yan Water Street Former MGP Site Penn Yan, New York
Drilling Method:	4.25" ID Augers	**Surface Elevation:**	719.50 ft AMSL		
Sampling Method:	NA	**Borehole Depth:**	60 ft bgs		
Rig Type:	Hollow Stem Aguer	**Descriptions By:**	K. Flemming		

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
720 / 0							Location not logged. Refer to TMW-2D boring log for lithology.	8" Flush-mounted Well Box; Concrete Pad (0'-1' bgs)
715 / 5	NA	NA	NA	NA				2" Dia. SCH40 PVC Riser (0'-50' bgs)
710 / 10								Bentonite Cement Grout (1'-47' bgs)
705 / 15								

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.
Location hand cleared 0-5' bgs.

ARCADIS Design & Consultancy for natural and built assets

Client: NYSEG

Well/Boring ID: **TMW-2DR**

Borehole Depth: 60 ft bgs

Site Location:

Penn Yan Water Street
Former MGP Site
Penn Yan, New York

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
							Location not logged. Refer to TMW-2D boring log for lithology.	Bentonite Cement Grout (1'-47' bgs)
700 / 20								
695 / 25	NA	NA	NA	NA				2" Dia. SCH40 PVC Riser (0'-50' bgs)
690 / 30								
685 / 35								

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.
Location hand cleared 0-5' bgs.

Client: NYSEG

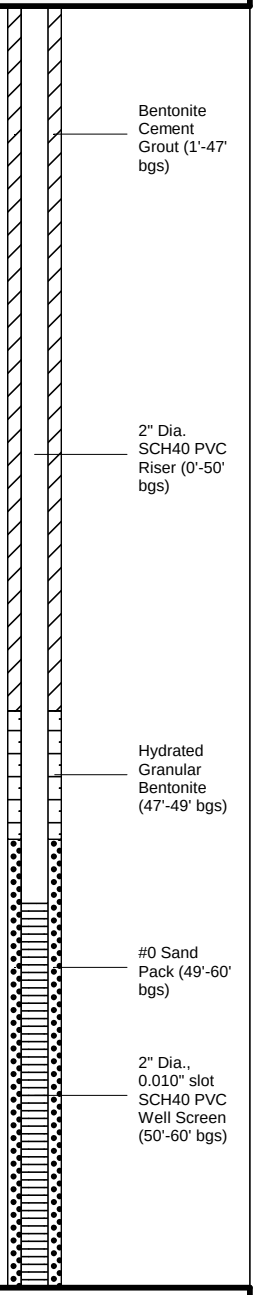
Well/Boring ID: **TMW-2DR**

Borehole Depth: 60 ft bgs

Site Location:

Penn Yan Water Street
Former MGP Site
Penn Yan, New York

Depth (feet bgs)	Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
								Location not logged. Refer to TMW-2D boring log for lithology.	
	680								
40									
	675								
45		NA	NA	NA	NA				
	670								
50									
	665								
55									



ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.
Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: TMW-2DR

Borehole Depth: 60 ft bgs

Site Location:

Penn Yan Water Street
Former MGP Site
Penn Yan, New York

Depth (feet bgs) / Elevation (feet AMSL)	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
60 / 660	NA	NA	NA	NA			Location not logged. Refer to TMW-2D boring log for lithology.	#0 Sand Pack (49'-60' bgs); 2" Dia., 0.010" slot SCH40 PVC Well Screen (50'-60' bgs)
65 / 655								
70 / 650								
75 / 645								

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.
Location hand cleared 0-5' bgs.