NEU-VELLE LLC

January 20, 2022

Mr. Gerald Pratt
Project Manager
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Re: 1st Groundwater Monitoring Program Sampling Report
NYSEG Jackson Street Former MGP Site
Penn Yan, Yates County, New York
NYSDEC Site Code 862008

Dear Mr. Pratt:

The purpose of this report is to present the results of the first (1st) Groundwater Monitoring Program (GWMP) sampling event completed at the New York State Electric & Gas Corporation (NYSEG) Jackson Street Former Manufactured Gas Plant (MGP) site [New York State Department of Environmental Conservation (NYSDEC) Site No. 862008], located at Linden Street and Court Street in Penn Yan, Yates County, New York (referred to herein as the "Site"), as depicted on **Figure 1**. This groundwater sampling was completed by NEU-VELLE, LLC (NEU-VELLE) personnel in accordance with the Site Management Plan (SMP) for the Site, prepared by AMEC Geomatrix, Inc. and dated December 2011.

SCOPE OF WORK

Synoptic Water Levels

As summarized in **Table 1**, a Site-wide round of synoptic groundwater levels were collected from seven (7) monitoring wells at the Site (MW-1, MW-2S, MW-2D, MW-3A, MW-4S, MW-4D, and MW-6) on December 1, 2021. Note, MW-5 was not accessible due to previously sustained damage to the well cover. The monitoring well locations are depicted on **Figure 2**. Each well was gauged for the presence of Non-aqueous Phase Liquid (NAPL) using an oil/water interface probe. NAPL was not detected in any of the wells. The well gauging observations and field measurements are provided in **Table 1,** and a groundwater elevation contour map is provided as **Figure 2.**

Groundwater Sampling

From December 2 through 6, 2021, the GWMP samples were collected from the seven (7) accessible groundwater monitoring wells at the Site (MW-1, MW-2S, MW-2D, MW-3A, MW-4S, MW-4D, and MW-6). A stainless-steel bladder pump equipped with a new polyethylene bladder and new polyethylene tubing was used at each sampling location. This sample event followed well development of the seven (7) Site monitoring wells that occurred on November 8 and 9, 2021. A Well Development and Inspection Report was prepared under separate cover and is included as **Attachment 1**. The recommendations contained within this report (i.e., MW5 curb box repair and

replacement of select "J" plugs) have not yet been implemented. These repairs are currently scheduled for completion in the spring of 2022.

Groundwater samples were collected using the low-stress (low-flow) purging techniques outlined in the United States Environmental Protection Agency (USEPA) Ground-Water Sampling Guidelines for Superfund and Resource Conservation and Recovery Act (RCRA) Project Managers dated May 2002.

Prior to initiating purging, field personnel donned new nitrile gloves, and care was taken to avoid introducing contaminants into the groundwater monitoring wells. During purging, time, water-level measurements, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), pH, turbidity, and specific conductance (purge parameters) were measured and recorded using calibrated field monitoring equipment.

The well information, sample information, monitoring parameters, and field observations were recorded on a groundwater sample log completed at each well. The groundwater sample logs are provided as **Attachment 2**.

New nitrile gloves were donned by field personnel prior to the collection of each groundwater sample. The laboratory samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under chain of custody protocols. The samples were delivered to Paradigm Environmental Services, Inc. (Paradigm) located in Rochester, New York. The groundwater samples were analyzed as follows:

- volatile organic compounds (VOCs), BTEX (benzene, toluene, ethylbenzene, and xylene) only, were analyzed in accordance with USEPA Method 8260;
- semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs) only, were analyzed in accordance with USEPA Method 8270; and
- total cyanide was analyzed in accordance with USEPA Method 9012.

Quality Assurance/Quality Control (QA/QC) samples including a field blank, equipment blanks, blind duplicates (collected at MW-6), a trip blank, and matrix spike/matrix spike duplicate samples (MS/MSD) were collected.

Reporting of Results

Copies of the laboratory analytical reports are presented in **Exhibit A,** and the analytical results, including those for the blind duplicate QA/QC samples, are summarized in **Table 2** of this report.

Waste Disposal

Purged groundwater and decontamination water were containerized into two (2) 55-gallon polyethylene drums and staged at the Site. This wastewater will be properly disposed at a future date.

RESULTS

Analytical Results

The groundwater sample analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Class A, standards, criteria, and guidance values (SCGs). The analytical results for groundwater samples are summarized in **Table 2** and **Figure 3,** as follows:

- BTEX compounds were detected above their respective TOGS 1.1.1 Class GA SCG values in three (3) of the groundwater samples collected (MW1, MW3A, and MW4S). Benzene was detected above its TOGS 1.1.1 Class GA SCG (1 µg/L) in MW1, MW3A, and MW4s at concentrations of 13 micrograms per liter (µg/L) or parts per billion (ppb), 81 µg/L, and 1,600 µg/L, respectively. Toluene, ethylbenzene, and xylenes (total) were each detected in MW3A and 4S, at concentrations above their respective TOGS 1.1.1 Class GA SCG level (5 µg/L), with the exception of toluene in MW3A (estimated at 0.73 J µg/L).
- PAHs were detected above laboratory reporting limits in two (2) of the groundwater samples collected (MW3A and MW4S) and detected (and given estimated concentrations) below reporting limits in five (5) of the groundwater samples collected (MW1, MW2S, MW3A, MW4D, and MW4S). One (1) PAH (naphthalene) was detected at a concentration (2,600 µg/L) above its TOGS 1.1.1 Class GA SCG (10 µg/L) in MW4S. The other PAHs detected in samples were below their respective TOGS 1.1.1 Class GA SCG values.
- Concentrations of total cyanide were detected above laboratory reporting limits in three (3) of the groundwater samples collected (MW1, MW3A, and MW4S) and detected (and given estimated concentrations) below reporting limits in one (1) of the groundwater samples collected (MW2D). The reported concentrations of total cyanide above reporting limits were 0.015 milligrams per liter (mg/L) or parts per million (ppm), 0.025 mg/L, and 0.083 mg/L, respectively, which are all below the TOGS 1.1.1, Class GA SCG for total cyanide (0.2 mg/L).

The analytical results for the QA/QC samples are summarized as follows:

- No detections of BTEX or total cyanide were reported in the "equipment blank" sample. Naphthalene was detected at a concentration below the reporting limit and given an estimated value of 0.94 J µg/L.
- No BTEX compounds were detected in the Trip Blank sample.
- No detections of BTEX, PAHs, or total cyanide were reported in the blind duplicate sample collected at MW6.

Groundwater Mapping

A groundwater contour map (see **Figure 2**) was prepared based on the water level data collected at the Site on December 1, 2021. This groundwater contour map depicts the groundwater beneath the Site flowing to the east, toward Jacobs Brook. The groundwater flow direction appears to generally follow the topography of the Site, which is consistent with prior findings of groundwater flow direction at the Site.

CONCLUSIONS

This report presents the results of the first (1st) GWMP sampling event completed at the NYSEG Jackson Street Former MGP site, Penn Yan, NY (NYSDEC Site No. 862008).

BTEX compounds were detected above their respective TOGS 1.1.1 Class GA SCG values in three (3) of the groundwater samples collected (MW1, MW3A, and MW4S). One (1) PAH (naphthalene) was detected at a concentration (2,600 µg/L) above its TOGS 1.1.1 Class GA SCG (10 µg/L) in MW4S. Concentrations of total cyanide were detected above laboratory reporting limits in three (3) of the groundwater samples collected (MW1, MW3A, and MW4S) and detected (and given estimated concentrations) below reporting limits in one (1) of the groundwater samples collected (MW2D), all of which were below the TOGS 1.1.1, Class GA SCG for total cyanide (0.2 mg/L).

The groundwater contour map for December 1, 2021 depicts the groundwater beneath the Site flowing predominantly to the east, toward Jacobs Creek, generally following the Site's topography.

The periodic (every 15 months) GWMP sampling will continue as described in the SMP (the next groundwater sampling event is scheduled for March 2023) and will continue to assess the groundwater quality beneath the Site.

Please feel free to contact me at any time at (585) 478-3167 with any questions you may have regarding this letter report.

Sincerely,

Logan Reid
NEU-VELLE, LLC

Attachments:

Table 1 – Monitoring Well Reference Data and Groundwater Measurements
Table 2 – Groundwater Sample Analytical Results
Figure 1 – Site Location
Figure 2 – December 2021 Groundwater Elevation Contours
Figure 3 – December 2021 Analytical Detections in Groundwater

Attachment 1 – Monitoring Well Development and Inspection Report November 2021
Attachment 2 – Groundwater Sample Logs
Exhibit A – Laboratory Reports

Eastman Business Park,1667 Lake Avenue, Building 59, 1st Floor, Rochester, New York 14615
WWW.NEU-VELLE.COM

Tables

NEU-VELLE LLC

Table 1
Monitoring Well Reference Data and Groundwater Measurements

Well ID	TOC Elevation (ft)	Depth to Water (ft bgs)	Groundwater Elevation (ft)
		12/1/2021	
MW-1	754.49	9.43	745.06
MW-2D	754.22	10.60	743.62
MW-2S	753.76	9.52	744.24
MW-3A	752.48	11.15	741.33
MW-4D	754.33	11.78	742.55
MW-4S	753.02	12.14	740.88
MW-5*	749.99	NM	NA
MW-6	751.85	10.30	741.55

Notes:

1. Top of Casing (TOC) elevations surveyed by NYSEG personnel, September 2007. Vertical datum unknown.
2. Depths to water measured by NEU-VELLE on dates indicated.
3. bgs = below ground surface
4. * MW-5 well cover was damaged and was inaccessible
5. NM = not measured
6. NA = not applicable

Table 2
Groundwater Sample Analytical Results

Sample Location			MW1		MW2D		MW2S		MW3A		MW4D		MW4S		MW6		MW6 (DUPLICATE)	
Sample Date			12/3/2021		12/2/2021		12/2/2021		12/6/2021		12/4/2021		12/4/2021		12/3/2021			
Sample Identification			PY-MW1-120321		PY-MW2D-120221		PY-MW2S-120221		PY-MW3A-120621		PY-MW4D-120421		PY-MW4S-120421		PY-MW6-120321		PY-DUP-120321	
Analyte	TOGS 1.1.1 Groundwater SCG	Units	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit
BTEX																		
Benzene	1	µg/L	**13**	1.0	ND	1.0	ND	1.0	**81**	1.0	ND	1.0	**1,600**	40	ND	1.0	ND	1.0
Ethylbenzene	5	µg/L	ND	1.0	ND	1.0	ND	1.0	**22**	1.0	ND	1.0	**480**	40	ND	1.0	ND	1.0
Toluene	5	µg/L	ND	1.0	ND	1.0	ND	1.0	**0.73 J**	1.0	ND	1.0	**91**	40	ND	1.0	ND	1.0
Xylenes, Total	5	µg/L	ND	2.0	ND F1	2.0	ND	2.0	**14**	2.0	ND	2.0	**800**	80	ND	2.0	ND	2.0
PAHs																		
Acenaphthene	20	µg/L	ND	0.54	ND	0.49	ND	0.53	ND	0.53	ND	0.53	**13**	2.5	ND	0.48	ND	0.49
Acenaphthylene	NS	µg/L	ND	0.32	ND	0.29	ND	0.32	**0.16 J**	0.32	ND	0.32	**64**	1.5	ND	0.29	ND	0.29
Anthracene	50	µg/L	ND	0.54	ND	0.49	ND	0.53	ND	0.53	ND	0.53	**6.3**	2.5	ND	0.48	ND	0.49
Chrysene	0.002	µg/L	ND	0.54	ND F1 F2	0.49	ND	0.53	ND	0.53	ND	0.53	ND	2.5	ND	0.48	ND	0.49
Fluoranthene	50	µg/L	ND	0.54	ND	0.49	**0.11 J**	0.53	ND	0.53	ND	0.53	**2.5**	2.5	ND	0.48	ND	0.49
Fluorene	50	µg/L	ND	0.54	ND	0.49	ND	0.53	ND	0.53	ND	0.53	**17**	2.5	ND	0.48	ND	0.49
Naphthalene	10	µg/L	**0.35 J**	1.1	ND	0.97	ND	1.1	**2.9**	1.1	**0.67 J**	1.1	**2,600**	400	ND	0.95	ND	0.97
Phenanthrene	50	µg/L	ND	0.22	ND	0.19	ND	0.21	ND	0.21	ND	0.21	**23**	1.0	ND	0.19	ND	0.19
Pyrene	50	µg/L	ND	0.54	ND	0.49	ND	0.53	ND	0.53	ND	0.53	**2.2 J**	2.5	ND	0.48	ND	0.49
Cyanide																		
Cyanide, Total	0.2	mg/L	**0.015**	0.010	**0.0074 J**	0.010	ND	0.010	**0.025**	0.010	ND	0.010	**0.083**	0.010	ND	0.010	ND	0.010

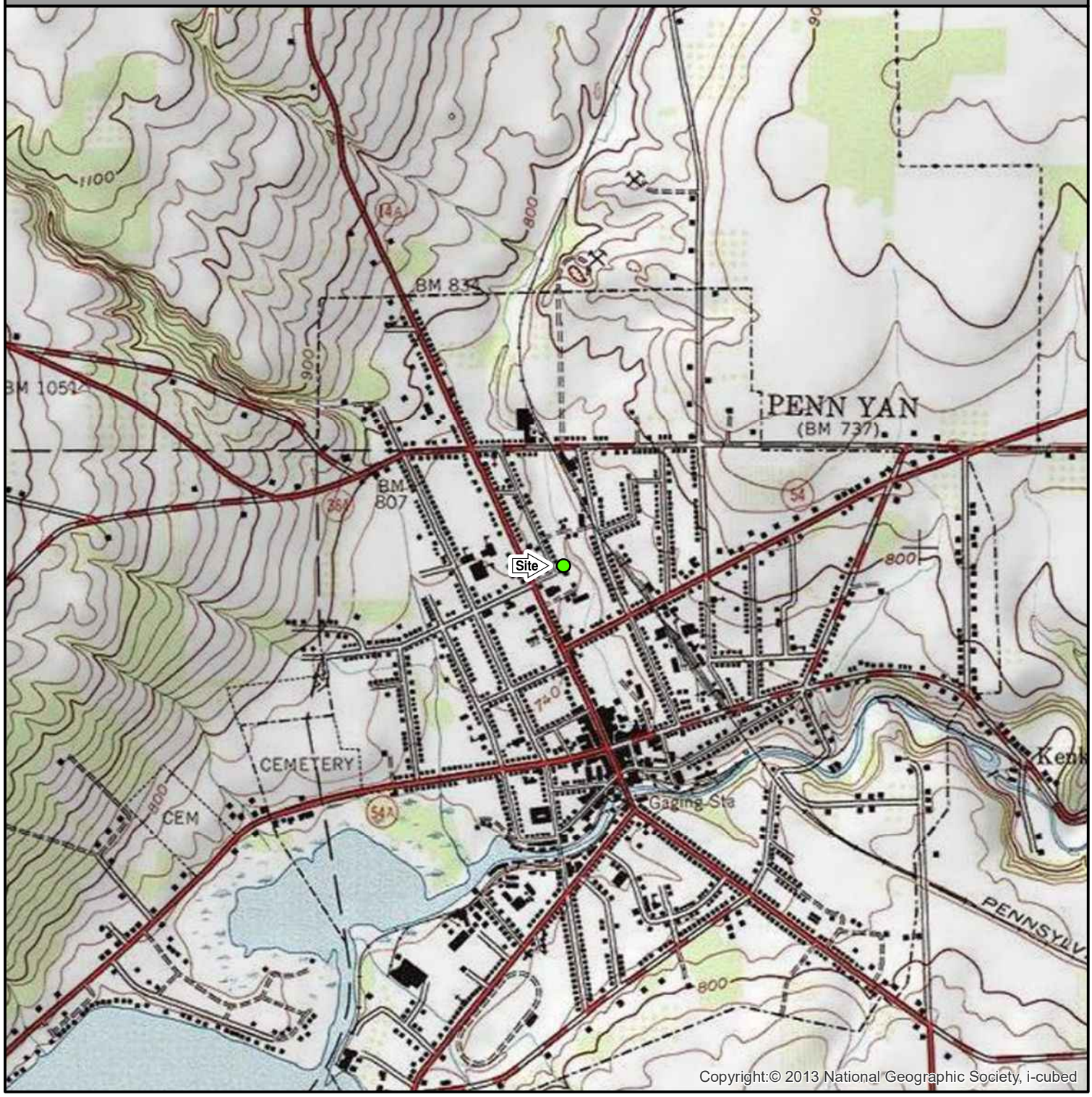
Notes:
1. µg/L = micrograms per liter
2. mg/L = milligrams per liter
3. "NS" = no standard and "ND" = non-detect
4. Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
5. **Bold Sample result** = compound was detected.
6. **Gray shading indicates the sample result is above the TOGS 1.1.1 Standards, Criteria and Guidance Value.**
7. "J" is a laboratory data qualifier indicating "Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value"
8. "F1" is a laboratory data qualifier indicating "MS and/or MSD recovery exceeds control limits"
9. "F2" is a laboratory data qualifier indicating "MS/MSD RPD exceeds control limits"

Figures

NEU-VELLE LLC

C:\Users\LoganReid\Neu-Velle LLC\Public - Documents\.Clients\RG&E\Penn Yan\Docs\DWG\MXD\1_Site_Loc.mxd

FIGURE 1



NEW YORK STATE -
SENECA COUNTY

NEW YORK STATE ELECTRIC & GAS CORPORATION
JACKSON STREET FORMER MGP SITE
PENN YAN, NEW YORK

SITE LOCATION

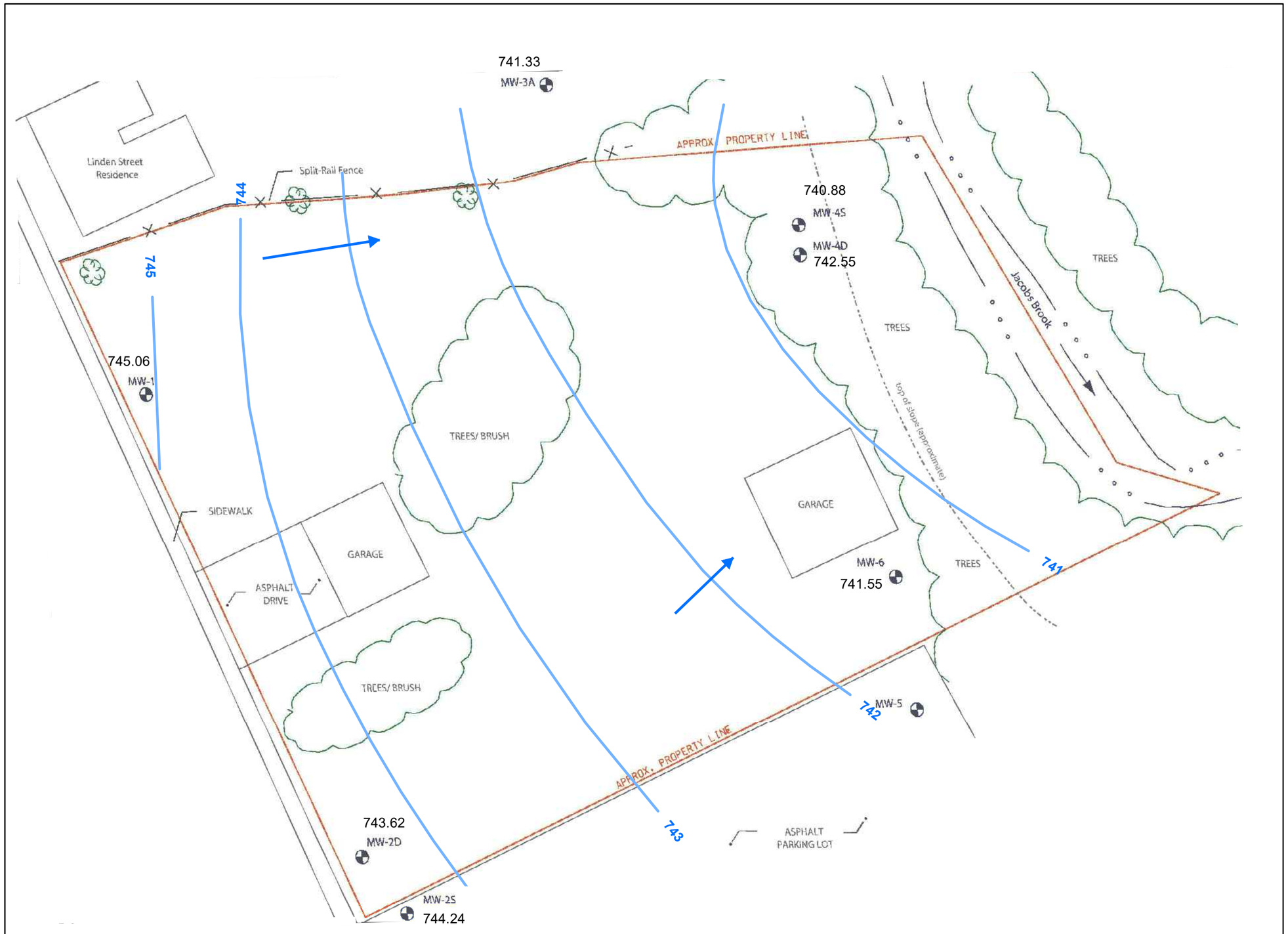
N

2,000 1,000 0 2,000
Feet

JANUARY 2022

NEU-VELLE LLC

FIGURE 2



N

LEGEND

- MONITORING WELL
- INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION

NOTES:
1. BASEMAP ADAPTED FROM SITE MANAGEMENT PLAN, FIGURE 1B.
2. GROUNDWATER ELEVATION MEASURED DECEMBER 1, 2021 IN FEET (NAVD 88).
3. ALL LOCATIONS ARE APPROXIMATE.
4. MW-2D AND MW4D GROUNDWATER ELEVATIONS EXCLUDED FROM INTERPOLATION.

NEW YORK STATE
ELECTRIC & GAS
CORPORATION
JACKSON STREET
FORMER MGP SITE
PENN YAN, NEW YORK

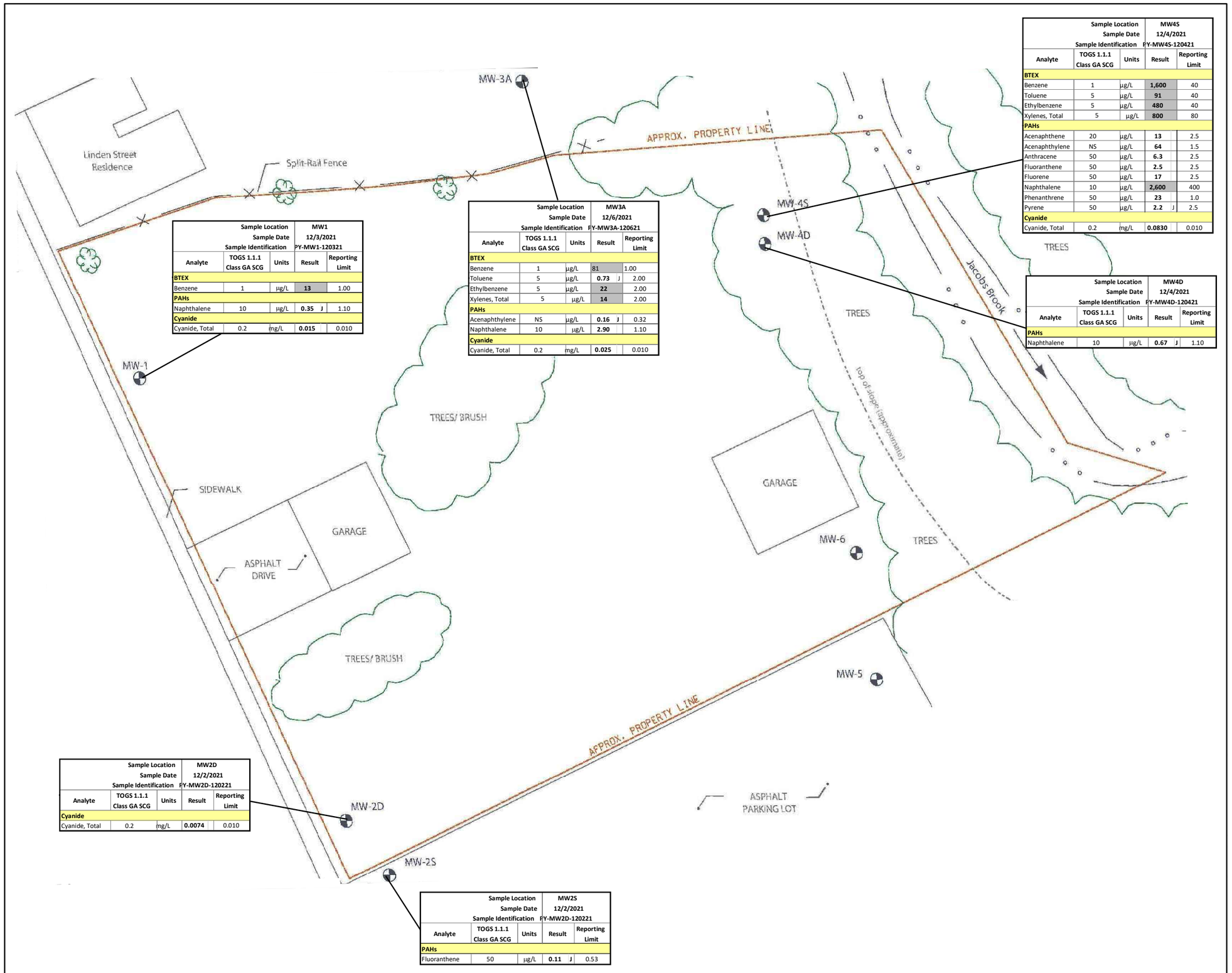
DECEMBER 2021
GROUNDWATER ELEVATION CONTOURS

0 12.5 25 50
Feet

JANUARY 2022

NEU-VELLE LLC

FIGURE 3



	Sample Location	MW1
	Sample Date	12/3/2021
	Sample Identification	FY-MW1-120321

Analyte	TOGS 1.1.1 Class GA SCG	Units	Result		Reporting Limit
BTEX					
Benzene	1	µg/L	**13**		1.00
PAHs					
Naphthalene	10	µg/L	**0.35**	J	1.10
Cyanide					
Cyanide, Total	0.2	mg/L	**0.015**		0.010

	Sample Location	MW3A
	Sample Date	12/6/2021
	Sample Identification	FY-MW3A-120621

Analyte	TOGS 1.1.1 Class GA SCG	Units	Result		Reporting Limit
BTEX					
Benzene	1	µg/L	81		1.00
Toluene	5	µg/L	**0.73**	J	2.00
Ethylbenzene	5	µg/L	**22**		2.00
Xylenes, Total	5	µg/L	**14**		2.00
PAHs					
Acenaphthylene	NS	µg/L	**0.16**	J	0.32
Naphthalene	10	µg/L	**2.90**		1.10
Cyanide					
Cyanide, Total	0.2	mg/L	**0.025**		0.010

	Sample Location	MW4S
	Sample Date	12/4/2021
	Sample Identification	FY-MW4S-120421

Analyte	TOGS 1.1.1 Class GA SCG	Units	Result		Reporting Limit
BTEX					
Benzene	1	µg/L	**1,600**		40
Toluene	5	µg/L	**91**		40
Ethylbenzene	5	µg/L	**480**		40
Xylenes, Total	5	µg/L	**800**		80
PAHs					
Acenaphthene	20	µg/L	**13**		2.5
Acenaphthylene	NS	µg/L	**64**		1.5
Anthracene	50	µg/L	**6.3**		2.5
Fluoranthene	50	µg/L	**2.5**		2.5
Fluorene	50	µg/L	**17**		2.5
Naphthalene	10	µg/L	**2,600**		400
Phenanthrene	50	µg/L	**23**		1.0
Pyrene	50	µg/L	**2.2**	J	2.5
Cyanide					
Cyanide, Total	0.2	mg/L	**0.0830**		0.010

	Sample Location	MW4D
	Sample Date	12/4/2021
	Sample Identification	FY-MW4D-120421

Analyte	TOGS 1.1.1 Class GA SCG	Units	Result		Reporting Limit
PAHs					
Naphthalene	10	µg/L	**0.67**	J	1.10

	Sample Location	MW2D
	Sample Date	12/2/2021
	Sample Identification	FY-MW2D-120221

Analyte	TOGS 1.1.1 Class GA SCG	Units	Result		Reporting Limit
Cyanide					
Cyanide, Total	0.2	mg/L	**0.0074**		0.010

	Sample Location	MW2S
	Sample Date	12/2/2021
	Sample Identification	FY-MW2D-120221

Analyte	TOGS 1.1.1 Class GA SCG	Units	Result		Reporting Limit
PAHs					
Fluoranthene	50	µg/L	**0.11**	J	0.53

N

LEGEND

MONITORING WELL

NOTES:
1. BASEMAP ADAPTED FROM SITE MANAGEMENT PLAN, FIGURE 1B.
2. ONLY ANALYTICAL DETECTIONS ARE DEPICTED.
3. ALL LOCATIONS ARE APPROXIMATE.

NEW YORK STATE ELECTRIC & GAS CORPORATION
JACKSON STREET
FORMER MGP SITE
PENN YAN, NEW YORK

DECEMBER 2021 ANALYTICAL DETECTIONS IN GROUNDWATER

0 12.5 25 50
Feet

JANUARY 2022

NEU-VELLE LLC

Attachment 1

Monitoring Well Inspection and Redevelopment Report

November 2021

NEU-VELLE LLC

NEU-VELLE LLC

November 17, 2021

Mr. Tracy L. Blazicek, CHMM, PMP
Senior Project Manager -
Environmental Remediation
Avangrid Service Company
Environmental Health & Safety Group
PO Box 5224
Binghamton, New York 13902-5224

Re: Letter Report - Monitoring Well Inspection and Redevelopment
NYSEG Jackson Street Former MGP Site
Linden Street & Court Street
Penn Yan, Yates County, New York
NYSDEC Site #862008

Dear Mr. Blazieck:

The purpose of this report is to present the results of monitoring well inspection and redevelopment completed at the New York State Electric & Gas Corporation (NYSEG) Jackson Street Former Manufactured Gas Plant (MGP) site [New State Department of Environmental Conservation (NYSDEC) Site No. 862008], located at Linden Street and Court Street in Penn Yan, Yates County, New York (referred to herein as the "Site"). The monitoring well inspection and redevelopment was completed by NEU-VELLE, LLC (NEU-VELLE) personnel in accordance with the Site Management Plan (SMP) document dated December 2011.

Monitoring Well Inspection and Redevelopment/Findings

On November 8, the eight (8) existing Site monitoring wells were visually inspected for integrity and photographed, as presented in **Attachment 1 – Photographic Log**. Seven (7) of the eight (8) monitoring wells were accessible; MW-5 was not accessible due to apparent damage to the concrete curb box, as further described below. The findings and recommendations of the Site monitoring well inspection are as follows:

- MW-1 and 3A inner well caps are damaged but functional; replacement not needed at this time;
- MW-4D and MW-2S had missing "j-plugs"; replacement of "j-plugs" recommended; and
- MW-5 concrete curb box shifted, causing the well casing to shift relative to the curb box wall and consequently the steel well cap could not be removed from the casing; curb box replacement and well casing repair recommended.

Following the inspections, the seven (7) monitoring wells (MW-1, MW-2S, MW-2D, MW-3A, MW-4S, MW-4D, and MW-6) were redeveloped by surging/bailing until dry or until a maximum of ten (10) well volumes were removed from the monitoring well. The extracted groundwater was containerized on-Site in two (2) polyethylene drums and labeled for future off-Site disposal. Monitoring Well Development Logs are provided as **Attachment 2**.

Please feel free to contact me at any time at (585) 478-3167with any questions you may have regarding this letter report.

Sincerely,
NEU-VELLE LLC

Logan Reid
Senior Project Manager

Attachments:

Attachment 1 – Photographic Log
Attachment 2 – Monitoring Well Development Logs

Eastman Business Park,1667 Lake Avenue, Building 59, 1st Floor, Rochester, New York 14615
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Attachment 1

Photographic Log

NEU-VELLE LLC

Well Inspection Photographs
RG&E Linden Street, Penn Yan, NY – November 2021

MW-1 – Inner well cap is damaged but functional.

MW-2S –Well plug is missing.

Well Inspection Photographs
RG&E Linden Street, Penn Yan, NY – November 2021

MW-2D – Well head in good condition.

MW-3A – Inner well cap is damaged but functional.

Well Inspection Photographs
RG&E Linden Street, Penn Yan, NY – November 2021

MW-4S – Well head in good condition.

MW-4D – Well plug is missing.

Well Inspection Photographs
RG&E Linden Street, Penn Yan, NY – November 2021

MW-5 – Well head cap cannot be removed.

MW-6 – Well head in good condition.

Attachment 2

Monitoring Well Development Logs

NEU-VELLE LLC

NEU-VELLE, LLC | **Monitoring Well Development Log** | **Well ID:** MW 1

Date: 11/8/21 | Personnel: K. Miller / A. Rothfuss | Weather: Sunny ± 60°F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: Dedicated Poly Bailer | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA

Well information:

Installed Depth of Well*: ± 20 ft. bmp.

Measured Depth of Well*: 16.98 ft. bmp.

Depth to Water*: 8.78 ft. bmp.

Length of Water Column (LWC): 8.2 ft.

Well Diameter: 2 in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft

2 in. = 0.163 gal/ft

4 in. = 0.653 gal/ft

6 in. = 1.469 gal/ft

Well Volume: 1.34 gal.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 12:30 | Initial: Color clear | Odor NONE | Sheen/Free Product NO

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water
	0.5					7.27			clear
	1.5		17.7	6.96	6.94	141			cloudy gray
	± 3		15.7	7.21	598.4	1242 AU			gray/brown
	± 5		15.5	7.39	596.2	OVERrange			brown
	± 7		16.1	7.38	594.4	OVER			brown/gray
		Turbidity is not reducing as we remove water from well with bailer, so ceased water quality readings and will remove 10 well volumes.							

End Purge Time: 13:15 | Final: Color Brown | Odor None | Sheen/Free Product NO

Final Depth to Water: _____ ft. bmp. | Final Well Depth: _____ ft. bmp. | Total volume purged: 13.5 gal.

NOTES: Well head in usable condition, although the inner well cap is damaged.

Attempted to remove any possible material at bottom of well (e.g. bailer, etc.) with fish hook but Nothing found.

NEU-VELLE, LLC

Monitoring Well Development Log

Well ID: MW4S

Date: 11/8/21 | Personnel: KMiller/ARothfuss | Weather: Sunny ±60°F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: Dedicated Poly Bailer | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA

information:

Installed Depth of Well*: [illegible] ft. bmp.

Measured Depth of Well*: 21.72 ft. bmp.

Depth to Water*: 12.01 ft. bmp.

Length of Water Column (LWC): 9.71 ft.

Well Diameter: 2" in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft

2 in. = 0.163 gal/ft (circled)

4 in. = 0.653 gal/ft

6 in. = 1.469 gal/ft

Well Volume: 1.58 gal.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: ________ Initial: *Color* clear *Odor* petro. Sheen/Free Product possible sheen

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water
	0.5		15.0	7.08	1066	28.3			clear
	1.5		13.9	7.00	1115	37.7			lt yellowish gray
	3±		13.2	7.12	1131	39.2			
	±4.5		12.7	6.99	1153	46.0			
	±6		NM	NM	NM	overrange			turbid brown

Well has been bailed "dry"

End Purge Time: 14:40 Final: *Color* brown *Odor* petro Sheen/Free Product No

Final Depth to Water: ________ ft. bmp. Final Well Depth: ________ ft. bmp. Total volume purged: ± 6 gal.

NOTES: stick up well head in good condition.

Petroleum odor, strong at times.

NEU-VELLE, LLC | **Monitoring Well Development Log** | **Well ID:** MW4D

Date: 11/8/21 | Personnel: K. Miller/A. Rothfuss | Weather: sunny ±60° F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: ~~Dedicated Poly Bailer~~ what pump | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA

Well information:

Installed Depth of Well*: 39.5 ft. bmp.

Measured Depth of Well*: ± 40 ft. bmp.

Depth to Water*: 13.29 ft. bmp.

Length of Water Column (LWC): ± 26.71 ft.

Well Diameter: 2 in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft

2 in. = 0.163 gal/ft

4 in. = 0.653 gal/ft

6 in. = 1.469 gal/ft

Well Volume: 4.35 gal.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 14:50 | Initial: *Color* lt. gray *Odor* NONE | Sheen/Free Product: NO

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water
	± 1		12.7	9.50	220.0	600			lt. gray
	± 5		12.3	8.78	278.1	overrange			dark gray
	± 8		12.6	8.72	232.7	overrange			gray
		well pumps "dry" after ± 2 well volumes.							

End Purge Time: 16:00 | Final: *Color* gray *Odor* slight petro. | Sheen/Free Product: NO

Final Depth to Water: _____ ft. bmp. | Final Well Depth: _____ ft. bmp. | Total volume purged: ± 8 gal.

NOTES:

well head (stick up) in good condition.

Disposable bailer was discarded in well.

No "J-plug" on top of well casing.

NEU-VELLE, LLC | **Monitoring Well Development Log** | **Well ID:** MW 25

Date: 11/8/21 | Personnel: K. Miller / A. Rothfuss | Weather: Sunny ± 60°F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: Dedicated Poly Bailer | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA

Well information:

Installed Depth of Well*: 15 ft. bmp.

Measured Depth of Well*: 13.14 ft. bmp.

Depth to Water*: 8.45 ft. bmp.

Length of Water Column (LWC): 4.69 ft.

Well Diameter: 2 in. | Well Volume: 0.76 gal.

Well Volume Multipliers:

1 in. = 0.041 gal/ft

2 in. = 0.163 gal/ft

4 in. = 0.653 gal/ft

6 in. = 1.469 gal/ft

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 16:20 | Initial: Color Clear | Odor None | Sheen/Free Product None

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water
	0.25	8.45	16.8	7.28	902.6	15.2			Clear
	1.0	–	16.4	7.36	955.9	over			Brown
	2.25	–	16.2	7.35	969.3	over			Brown
	3.0	–	16.1	7.45	953.1	over			Brown
	3.75	–	15.9	7.55	943.9	over			Brown
	Dry								

End Purge Time: 16:45 | Final: Color Brown | Odor None | Sheen/Free Product None

Final Depth to Water: Dry ft. bmp. | Final Well Depth: 13.14 ft. bmp. | Total volume purged: 4.5 gal.

NOTES: No J-Plug / Good Conditions

NEU-VELLE, LLC | **Monitoring Well Development Log** | **Well ID:** MW2D

Date: 11/9/21 | Personnel: K. Miller / A. Loth Fuss | Weather: sunny ± 50°F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: ~~Dedicated Poly Bailer~~ | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA Whale pump

Well information:

Installed Depth of Well*:	39.5	ft. bmp.
Measured Depth of Well*:	38.51	ft. bmp.
Depth to Water*:	11.33	ft. bmp.
Length of Water Column (LWC):	27.18	ft.
Well Diameter:	2	in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft
2 in. = 0.163 gal/ft
4 in. = 0.653 gal/ft
6 in. = 1.469 gal/ft

Well Volume: 4.43 gal.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 11:30 | Initial: *Color* | *Odor* | Sheen/Free Product

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water
	0.5		13.4	6.75	438.4	1006	AN		lt. gray
	± 5	± 34	15.6	8.72	419.8	90			lt. gray
	± 8		14.2	7.84	479.8	1718	AN		lt. gray
			Well pumps "dry" after ± 2 well volumes removed						

End Purge Time: 12:00 | Final: *Color* gray turbid | *Odor* NONE | Sheen/Free Product NO

Final Depth to Water: _____ ft. bmp. | Final Well Depth: _____ ft. bmp. | Total volume purged: ± 8 gal.

NOTES: Discarded Bailer in well

Well head in good condition.

NEU-VELLE, LLC | **Monitoring Well Development Log** | **Well ID:** MW6

Date: 11/9/21 | Personnel: KMiller/ARoth | Weather: Sunny ± 55°F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: ~~Dedicated Poly Bailer~~ | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA whale pump

Well information:

Installed Depth of Well*:	39.5	ft. bmp.
Measured Depth of Well*:	39.27	ft. bmp.
Depth to Water*:	10.19	ft. bmp.
Length of Water Column (LWC):	29.08	ft.
Well Diameter:	2"	in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft
2 in. = 0.163 gal/ft
4 in. = 0.653 gal/ft
6 in. = 1.469 gal/ft

Well Volume: 4.74 gal.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 12:45 | Initial: Color clear | Odor NONE | Sheen/Free Product NO

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water
	0.5		14.7	7.63	448.4	374.0			clear
	±4.5		13.6	7.77	446.3	1141 AU			lt. gray/ cloudy
	±8	±35.5	12.4	7.74	442.8	3586 AU			gray
			well	pumped	"dry"				
			after	±2	well volumes				

End Purge Time: 13:15 | Final: Color gray | Odor NONE | Sheen/Free Product NO

Final Depth to Water: _____ ft. bmp. | Final Well Depth: _____ ft. bmp. | Total volume purged: ±8 gal.

NOTES: Well head in good condition.

NEU-VELLE, LLC **Monitoring Well Development Log** **Well ID:** MW5

Date: 11/9/2021 | Personnel: KMiller/ARothfuss | Weather: ~~MW5~~ sunny ±55°F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: Dedicated Poly Bailer | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA

Well information:

Installed Depth of Well*: 27 ft. bmp.

Measured Depth of Well*: ______ ft. bmp.

Depth to Water*: ______ ft. bmp.

Length of Water Column (LWC): ______ ft.

Well Diameter: ______ in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft

2 in. = 0.163 gal/ft

4 in. = 0.653 gal/ft

6 in. = 1.469 gal/ft

Well Volume: ______ gal.

* Measurements taken from

- [ ] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: ______ Initial: *Color* ______ *Odor* ______ Sheen/Free Product ______

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water

End Purge Time: ______ Final: *Color* ______ *Odor* ______ Sheen/Free Product ______

Final Depth to Water: ______ ft. bmp. Final Well Depth: ______ ft. bmp. Total volume purged: ______ gal.

NOTES: Road Box intact @ grade.
Could Not remove well cap from top of well casing.
Road box appears shifted/cockeyed once opened.

NEU-VELLE, LLC | **Monitoring Well Development Log** | **Well ID:** MW3A

Date: 11/9/21 | Personnel: KMiller/AGarthfuss | Weather: Sunny ± 55 °F

Site Name: NYSEG - Penn Yan Jackson St | Evacuation Method: Dedicated Poly Bailer | Project #: 2021191

Site Location: Penn Yan, NY | Sampling Method: NA

Well information:

Installed Depth of Well*: 40 ft. bmp.

Measured Depth of Well*: 37.9 ft. bmp.

Depth to Water*: 11.37 ft. bmp.

Length of Water Column (LWC): 26.53 ft.

Well Diameter: ____ in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft

2 in. = 0.163 gal/ft

4 in. = 0.653 gal/ft

6 in. = 1.469 gal/ft

Well Volume: 4.32 gal.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 14:00 | Initial: Color clear | Odor NONE | Sheen/Free Product NO

Elapsed Time	Volume Purged (gal.)	Depth To Water (ft)	Temperature °C / °F	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Dissolved Oxygen (mg/L)	Appearance of Water
	0.5		12.1	7.57	768.2	112			clear
	±4.5		13.2	7.58	770.5	overrange			gray/ turbid
	±9		11.5	7.55	797.2	overrange			
	±13.5		12.0	7.56	782.6	overrange			gray
	±18.0		11.7	7.56	785.1	overrange			gray
	±22.5		12.0	7.55	819.7	overrange			gray
	±26.5	26.8	11.5	7.59	790.3	overrange			gray
	±31		11.9	7.62	827.0	overrange			gray
	±35.5		11.6	7.56	780.9	overrange			gray
	±40.0		12.0	7.57	816.7	overrange			gray
	±43.5		11.4	7.56	797.1	overrange			gray

End Purge Time: 15:30 | Final: Color gray | Odor slight petro. | Sheen/Free Product NO

Final Depth to Water: ____ ft. bmp. | Final Well Depth: ____ ft. bmp. | Total volume purged: ±43.5 gal.

NOTES: Roadbox and well head in good condition, although well cap has been broken so it NO longer locks.

Attachment 2

Groundwater Sampling Logs

NEU-VELLE LLC

KRM - equipment trouble 11/30 and 12/1/21

NEU-VELLE, LLC — **Low Flow Ground Water Sampling Log**

Date	12/2/2021	Personnel	K R Miller / A Rothfuss	Weather	mostly cloudy ±36°F
Site Name	NYSEG - Penn Yan Jackson St	Evacuation Method	Bladder Pump	Well #	MW2D
Site Location	Penn Yan, NY	Sampling Method	Bladder Pump	Project #	2021193

Well Information:

Depth of Well *	±38.5	ft.	12/1/21
Depth to Water *	10.60	ft.	12/1/21
Length of Water Column		ft.	

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

NO NAPL 12/2/21

Start Purge Time: 13:10

Time	Depth To Water (ft. BTOC)	Temperature (C°)	pH	Conductivity (µs/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
pre	15.52							
13:10	NM							±400
13:15	18.36	12.6	8.46	0.509	216.0	4.32	20.3	↓
13:20	20.34	12.6	8.50	0.512	207.3	4.35	22.8	↓
13:25	21.10	12.3	8.50	0.518	195.4	5.03	17.7	±225
13:30	21.49	12.5	8.51	0.517	187.7	6.24	30.1	↓
13:35	21.55	12.5	8.50	0.520	175.0	6.33	31.7	↓
13:40	21.60	12.5	8.44	0.523	172.4	6.21	19.8	↓

End Purge Time: 13:40

Water sample: Time collected: 13:45

±2 gal. of groundwater purged prior to 13:10 during equipment troubleshooting (bad MP50 compressor)

Total volume of purged water removed: ±1.5 gal

13.5 gal overall purge

Physical appearance at start		Physical appearance at sampling	
Color	~~clear~~	Color	clear
Odor	~~clear~~ NONE	Odor	NONE
Sheen/Free Product	NO	Sheen/Free Product	NO

"PY-MW2D-120221" + MS/MSD

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	6	No	HCl	NM
250 ml	poly	3	No	NaOH	NM
1 L	Amber Glass	3	No	None	NM

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	12/2/2021	Personnel	K R Miller / ~~A Rothfuss~~	Weather	overcast windy ± 50°F
Site Name	NYSEG - Penn Yan Jackson St	Evacuation Method	Bladder Pump	Well #	MW-25
Site Location	Penn Yan, NY	Sampling Method	Bladder Pump	Project #	2021193

Well Information:

Depth of Well *	± 13.4	ft.	
Depth to Water *	9.52	ft.	12/1/21
Length of Water Column		ft.	

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

NO NAPL 12/2/21

Start Purge Time: 16:00

Time	Depth To Water (ft. BTOC)	Temperature (C°)	pH	Conductivity (µs/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
16:00	9.55	NM						± 200
16:05	9.70	14.3	7.06	0.89	184.7	6.01	39.3	
16:10	9.72	14.5	7.13	0.89	180.9	5.10	25.9	
16:15	9.76	14.4	7.15	0.90	174.7	4.97	11.7	
16:20	9.84	14.3	7.15	0.88	168.7	5.07	9.78	
16:25	9.91	14.5	7.14	0.87	165.9	5.03	8.47	

End Purge Time: 16:25

Water sample:
Time collected: 16:30

Total volume of purged water removed: ± 1.5 gal

Physical appearance at start
Color: clear
Odor: NONE
Sheen/Free Product: NO

Physical appearance at sampling
Color: clear
Odor: NONE
Sheen/Free Product: NO

"PY-MW25-120221"

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	2	No	HCl	NM
250 ml	poly	1	No	NaOH	NM
1 L	Amber Glass	1	No	None	NM

NEU-VELLE, LLC — **Low Flow Ground Water Sampling Log**

Date	12/3/2021	Personnel	K R Miller / A Rothfuss	Weather	cloudy ± 35°F
Site Name	NYSEG - Penn Yan Jackson St	Evacuation Method	Bladder Pump	Well #	MW-1
Site Location	Penn Yan, NY	Sampling Method	Bladder Pump	Project #	2021193

Well information:

Depth of Well * ± 17 ft.
Depth to Water * 9.43 ft. 12/1/21
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

NO NAPL 12/3/21

Start Purge Time: 11:45

Time	Depth To Water (ft. BTOC)	Temperature (C°)	pH	Conductivity (µs/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
11:50	± 9.5	12.2	7.06	0.544	223.0	2.63	overrange	± 200
11:55	10.01	12.5	7.12	0.544	198.7	1.86	over	
12:00	10.15	12.7	7.12	0.549	134.4	1.78	over	
12:05	10.19	12.7	7.12	0.549	68.0	1.75	over	
12:10	10.20	12.6	7.11	0.552	62.1	1.46	over	
12:15	10.19	12.8	7.12	0.553	44.0	1.70	over	
12:20	10.20	12.6	7.11	0.554	37.2	1.75	over	
12:25	10.20	12.7	7.12	0.555	35.2	1.77	over	

End Purge Time: 12:25

Water sample:
Time collected: 12:30

Total volume of purged water removed: ± 1.75 gal

Physical appearance at start
Color: cloudy
Odor: NONE
Sheen/Free Product: NO

Physical appearance at sampling
Color: cloudy
Odor: NONE
Sheen/Free Product: NO

"PY-MW1-120321"

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	2	No	HCl	NM
250 ml	poly	1	No	NaOH	NM
1 L	Amber Glass	1	No	None	NM

NEU-VELLE, LLC — **Low Flow Ground Water Sampling Log**

Date	12/3/2021	Personnel	K R Miller / A Rothfuss	Weather	partly sunny ± 35° F
Site Name	NYSEG - Penn Yan Jackson St	Evacuation Method	Bladder Pump	Well #	MW-6
Site Location	Penn Yan, NY	Sampling Method	Bladder Pump	Project #	2021193

Well Information:

Depth of Well *	±39 ft.	* Measurements taken from	
Depth to Water *	10.30 ft. 12/1/21	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

NO NAPL 12/3/21

Start Purge Time: 13:40

Time	Depth To Water (ft. BTOC)	Temperature (C°)	pH	Conductivity (µs/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
13:45	11.18	11.8	7.50	0.404	143.4	7.31	6.12	±250
13:50	12.65	11.9	7.49	0.402	144.4	7.73	3.98	
13:55	13.41	12.1	7.50	0.403	147.6	8.02	2.30	
14:00	14.40	11.9	7.47	0.401	150.3	8.28	2.43	
14:05	15.29	12.0	7.47	0.401	152.8	8.33	1.68	
14:10	16.40	12.0	7.48	0.400	154.7	8.63	2.06	
14:15	17.85	12.0	7.43	0.399	157.4	8.60	1.72	
14:20	18.75	12.2	7.48	0.403	157.4	8.62	5.46	
14:25	20.0	12.0	7.49	0.409	160.0	8.42	2.44	
14:30	20.42	12.1	7.48	0.408	158.9	8.46	2.31	
14:35	20.51	12.0	7.49	0.405	160.1	8.48	2.36	
14:40	20.55	11.9	7.48	0.406	159.9	8.46	2.34	

End Purge Time: 14:40

Water sample: Time collected: 14:45

Total volume of purged water removed: 12.5 gal

Physical appearance at start		Physical appearance at sampling	
Color	clear	Color	clear
Odor	NONE	Odor	NONE
Sheen/Free Product	NO	Sheen/Free Product	NO

"PY-MW6-120321" + "PY-DUP-120321"

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	4	No	HCl	NM
250 ml	poly	2	No	NaOH	NM
1 L	Amber Glass	2	No	None	NM

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	12 / 4 /2021	Personnel	K R Miller / ~~A Rothuss~~	Weather	mostly cloudy ± 40° F
Site Name	NYSEG - Penn Yan Jackson St	Evacuation Method	Bladder Pump	Well #	MW-40
Site Location	Penn Yan, NY	Sampling Method	Bladder Pump	Project #	2021193

Well information:

Depth of Well * ± 40 ft.
Depth to Water * 11.78 ft. 12/1/21
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

NO NAPL 12/4/21

Start Purge Time: 12:05

Time	Depth To Water (ft. BTOC)	Temperature (C°)	pH	Conductivity (µs/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
12:00	11.23	NM						
12:05	12.61	NM						± 125
12:10	NM	11.0	8.07	0.301	205.2	1.55	90.8	± 160
12:15	14.25	10.9	8.04	0.301	183.5	1.20	73.4	
12:20	14.81	11.0	8.02	0.305	172.6	0.97	72.5	
12:25	15.26	11.0	7.99	0.310	16.6	0.90	58.6	
12:30	15.88	11.0	7.99	0.312	-17.7	0.75	58.6	
12:35	16.68	10.9	7.97	0.316	-63.7	0.68	38.2	
12:40	17.45	10.9	7.97	0.316	-68.9	0.65	39.5	
12:45	17.74	10.9	7.94	0.320	-85.8	0.56	40.1	
12:50	17.89	10.8	7.93	0.321	-100.8	0.55	34.0	
12:55	17.98	10.9	7.93	0.322	-101.6	0.52	35.3	

End Purge Time: 12:55

Water sample:

Time collected: 13:00

Total volume of purged water removed: ± 2.5 gal

Physical appearance at start
Color: slightly cloudy
Odor: NONE
Sheen/Free Product: NO

Physical appearance at sampling
Color: clear
Odor: NONE
Sheen/Free Product: NO

"PY-MW4D-120421"

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	2	No	HCl	NM
250 ml	poly	1	No	NaOH	NM
1 L	Amber Glass	1	No	None	NM

NEU-VELLE, LLC — **Low Flow Ground Water Sampling Log**

Date	12 / 4 /2021	Personnel	K R Miller / ~~A Rothfuss~~	Weather	partly cloudy ± 40° f
Site Name	NYSEG - Penn Yan Jackson St	Evacuation Method	Bladder Pump	Well #	~~#~~ MW-4S
Site Location	Penn Yan, NY	Sampling Method	Bladder Pump	Project #	2021193

Well information:

Depth of Well * ± 21.7 ft.
Depth to Water * 12.14 ft. 12/1/21
Length of Water Column ft.

NO NAPL 12/4/21

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 13:30

* Feet below top of protective casing

Time	* Depth To Water (~~ft BTOC~~)	Temperature (C°)	pH	Conductivity (µs/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
13:30	12.93	NM						± 400
13:35	NM	11.2	6.77	1.05	7.4	2.69	NM	± 200
13:40	13.84	11.2	6.85	0.330	4.5	2.38	8.11	
13:45	13.97	11.3	6.89	1.05	-13.8	2.08	5.15	
13:50	14.15	11.5	7.52	1.05	-35.2	2.31	3.26	
13:55	14.28	11.4	7.73	1.05	-37.2	2.29	2.40	
14:00	14.49	11.5	7.76	1.06	-37.4	2.27	2.36	
14:05	14.54	11.3	7.71	1.06	-35.6	2.28	2.47	
14:10	14.62	11.3	7.70	1.06	-32.5	2.47	2.86	
14:15	14.67	11.3	7.66	1.06	-30.0	2.79	2.06	

End Purge Time: 14:15

Water sample:
Time collected: 14:15

Total volume of purged water removed: ± 2 gal

Physical appearance at start
Color clear
Odor heavy petro./MGP
Sheen/Free Product NO

Physical appearance at sampling
Color clear
Odor heavy petro./MGP
Sheen/Free Product NO

"PY-MW4S-120421"

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	2	No	HCl	NM
250 ml	poly	1	No	NaOH	NM
1 L	Amber Glass	1	No	None	NM

NEU-VELLE, LLC — **Low Flow Ground Water Sampling Log**

Date	12/6/2021	Personnel	K R Miller / A Rothfuss	Weather	1f. rain, cloudy ±45° F
Site Name	NYSEG - Penn Yan Jackson St	Evacuation Method	Bladder Pump	Well #	MW-3A
Site Location	Penn Yan, NY	Sampling Method	Bladder Pump	Project #	2021193

Well Information:

Depth of Well *	± 38 ft.		
Depth to Water *	11.15 ft.	12/1/21	
Length of Water Column	ft.		

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

NO NAPL 12/6/21

Start Purge Time: 12:15

Time	Depth To Water (ft. BTOC)	Temperature (C°)	pH	Conductivity (µs/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
pre	11.14							
12:15	NM	Fitting	Flow	thru	cell			
12:20	12.05	11.0	7.20	0.76	161.8	1.20	95.1	± 275
12:25	12.21	10.9	7.24	0.76	149.2	0.63	80.7	
12:30	12.36	10.7	7.25	0.76	133.5	0.53	over range	
12:35	12.40	10.7	7.26	0.76	119.6	0.54	over	
12:40	12.44	10.6	7.28	0.76	106.7	0.51	over	
12:45	12.43	10.6	7.27	0.76	53.1	0.47	over	
12:50	12.49	10.6	7.26	0.75	13.8	0.40	over	
12:55	12.49	10.6	7.28	0.73	-4.5	0.36	over	

End Purge Time: 12:55

Water sample:

Time collected: 13:00

Total volume of purged water removed: ± 2.5 gal

Physical appearance at start

Color: cloudy gray

Odor: very slight petro. odor

Sheen/Free Product: NO

Physical appearance at sampling

Color: turbid gray

Odor: slight ? petro.

Sheen/Free Product: NO

Equipment Blank "PY-EB-120521" collected 12/5/21 13:00

Analytical Parameters: Sample "PY-MW3A-120621"

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	4	No	HCl	NM
250 ml	poly	2	No	NaOH	NM
1 L	Amber Glass	2	No	None	NM

Exhibit A

Groundwater Laboratory Report, Chain of Custody Forms, and DUSR

NEU-VELLE LLC

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-193120-1
Client Project/Site: NYSEG Former MGP Site - Penn Yan

For:
New York State Electric & Gas
PO BOX 5224
Binghamton, New York 13902

Attn: Mr. Tracy L Blazicek

Authorized for release by:
12/14/2021 9:27:06 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

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

LINKS

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Table of Contents

Definitions/Glossary

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

Job ID: 480-193120-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

General Chemistry

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.

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
Job ID: 480-193120-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-193120-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-193120-1

Comments
No additional comments.

Receipt
The samples were received on 12/7/2021 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.7º C, 2.9º C and 3.5º C.

GC/MS VOA
Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: PY-MW3A-120621 (480-193120-9). pH is 7.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: PY-MW4S-120421 (480-193120-7). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D LL: The following sample was diluted due to color, appearance, and viscosity: PY-MW4S-120421 (480-193120-7). Elevated reporting limits (RL) are provided.

Method 8270D LL: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: PY-MW3A-120621 (480-193120-9). These results have been reported and qualified.

Method 8270D LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: PY-MW4S-120421 (480-193120-7). Elevated reporting limits (RLs) are provided.

Method 8270D LL: The following sample was diluted due to the abundance of target analytes: PY-MW4S-120421 (480-193120-7). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

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 Former MGP Site - Penn Yan

Job ID: 480-193120-1

Client Sample ID: PY-MW2D-120221 — Lab Sample ID: 480-193120-1

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: PY-MW2S-120221 — Lab Sample ID: 480-193120-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.11	J	0.53	0.085	ug/L	1		8270D LL	Total/NA

Client Sample ID: PY-MW1-120321 — Lab Sample ID: 480-193120-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13		1.0	0.41	ug/L	1		8260C	Total/NA
Naphthalene	0.35	J	1.1	0.069	ug/L	1		8270D LL	Total/NA
Cyanide, Total	0.015		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PY-DUP-120321 — Lab Sample ID: 480-193120-4

No Detections.

Client Sample ID: PY-MW6-120321 — Lab Sample ID: 480-193120-5

No Detections.

Client Sample ID: PY-MW4D-120421 — Lab Sample ID: 480-193120-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.67	J	1.1	0.067	ug/L	1		8270D LL	Total/NA

Client Sample ID: PY-MW4S-120421 — Lab Sample ID: 480-193120-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1600		40	16	ug/L	40		8260C	Total/NA
Ethylbenzene	480		40	30	ug/L	40		8260C	Total/NA
Toluene	91		40	20	ug/L	40		8260C	Total/NA
Xylenes, Total	800		80	26	ug/L	40		8260C	Total/NA
Acenaphthene	13		2.5	0.18	ug/L	5		8270D LL	Total/NA
Acenaphthylene	64		1.5	0.28	ug/L	5		8270D LL	Total/NA
Anthracene	6.3		2.5	0.17	ug/L	5		8270D LL	Total/NA
Fluoranthene	2.5		2.5	0.40	ug/L	5		8270D LL	Total/NA
Fluorene	17		2.5	0.29	ug/L	5		8270D LL	Total/NA
Phenanthrene	23		1.0	0.31	ug/L	5		8270D LL	Total/NA
Pyrene	2.2	J	2.5	0.38	ug/L	5		8270D LL	Total/NA
Naphthalene - DL	2600		400	26	ug/L	400		8270D LL	Total/NA
Cyanide, Total	0.083		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PY-EB-120521 — Lab Sample ID: 480-193120-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.94	J	1.0	0.067	ug/L	1		8270D LL	Total/NA

Client Sample ID: PY-MW3A-120621 — Lab Sample ID: 480-193120-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	81		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	22		1.0	0.74	ug/L	1		8260C	Total/NA
Toluene	0.73	J	1.0	0.51	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: PY-MW3A-120621 (Continued)
Lab Sample ID: 480-193120-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	14		2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthylene	0.16	J	0.32	0.060	ug/L	1		8270D LL	Total/NA
Naphthalene	2.9		1.1	0.068	ug/L	1		8270D LL	Total/NA
Cyanide, Total	0.025		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: TRIP BLANKS
Lab Sample ID: 480-193120-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PY-MW2D-120221

Lab Sample ID: 480-193120-1

Date Collected: 12/02/21 13:45

Matrix: Water

Date Received: 12/07/21 11:30

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			12/08/21 14:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 14:21	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 14:21	1
Xylenes, Total	ND	F1	2.0	0.66	ug/L			12/08/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*12/08/21 14:21*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*12/08/21 14:21*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*12/08/21 14:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/08/21 14:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		12/08/21 09:15	12/09/21 12:42	1
Acenaphthylene	ND		0.29	0.054	ug/L		12/08/21 09:15	12/09/21 12:42	1
Anthracene	ND		0.49	0.033	ug/L		12/08/21 09:15	12/09/21 12:42	1
Chrysene	ND	F2 F1	0.49	0.072	ug/L		12/08/21 09:15	12/09/21 12:42	1
Fluoranthene	ND		0.49	0.078	ug/L		12/08/21 09:15	12/09/21 12:42	1
Fluorene	ND		0.49	0.056	ug/L		12/08/21 09:15	12/09/21 12:42	1
Naphthalene	ND		0.97	0.062	ug/L		12/08/21 09:15	12/09/21 12:42	1
Phenanthrene	ND		0.19	0.060	ug/L		12/08/21 09:15	12/09/21 12:42	1
Pyrene	ND		0.49	0.074	ug/L		12/08/21 09:15	12/09/21 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*12/08/21 09:15*	*12/09/21 12:42*	*1*
Nitrobenzene-d5 (Surr)	*89*		*26 - 120*	*12/08/21 09:15*	*12/09/21 12:42*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*12/08/21 09:15*	*12/09/21 12:42*	*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		12/08/21 11:36	12/08/21 13:15	1

Client Sample ID: PY-MW2S-120221

Lab Sample ID: 480-193120-2

Date Collected: 12/02/21 16:30

Matrix: Water

Date Received: 12/07/21 11:30

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			12/08/21 14:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 14:44	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 14:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*12/08/21 14:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/08/21 14:44*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*12/08/21 14:44*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/08/21 14:44*	*1*

Client Sample ID: PY-MW2S-120221
Lab Sample ID: 480-193120-2
Date Collected: 12/02/21 16:30
Matrix: Water
Date Received: 12/07/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		12/08/21 09:15	12/09/21 13:10	1
Acenaphthylene	ND		0.32	0.060	ug/L		12/08/21 09:15	12/09/21 13:10	1
Anthracene	ND		0.53	0.036	ug/L		12/08/21 09:15	12/09/21 13:10	1
Chrysene	ND		0.53	0.079	ug/L		12/08/21 09:15	12/09/21 13:10	1
Fluoranthene	**0.11**	**J**	0.53	0.085	ug/L		12/08/21 09:15	12/09/21 13:10	1
Fluorene	ND		0.53	0.062	ug/L		12/08/21 09:15	12/09/21 13:10	1
Naphthalene	ND		1.1	0.068	ug/L		12/08/21 09:15	12/09/21 13:10	1
Phenanthrene	ND		0.21	0.066	ug/L		12/08/21 09:15	12/09/21 13:10	1
Pyrene	ND		0.53	0.081	ug/L		12/08/21 09:15	12/09/21 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*113*		*37 - 120*	*12/08/21 09:15*	*12/09/21 13:10*	*1*
Nitrobenzene-d5 (Surr)	*94*		*26 - 120*	*12/08/21 09:15*	*12/09/21 13:10*	*1*
p-Terphenyl-d14	*110*		*64 - 127*	*12/08/21 09:15*	*12/09/21 13:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:25	1

Client Sample ID: PY-MW1-120321
Lab Sample ID: 480-193120-3
Date Collected: 12/03/21 12:30
Matrix: Water
Date Received: 12/07/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**13**		1.0	0.41	ug/L			12/08/21 15:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 15:09	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 15:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*12/08/21 15:09*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*12/08/21 15:09*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*12/08/21 15:09*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/08/21 15:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.54	0.039	ug/L		12/08/21 09:15	12/09/21 13:37	1
Acenaphthylene	ND		0.32	0.060	ug/L		12/08/21 09:15	12/09/21 13:37	1
Anthracene	ND		0.54	0.037	ug/L		12/08/21 09:15	12/09/21 13:37	1
Chrysene	ND		0.54	0.080	ug/L		12/08/21 09:15	12/09/21 13:37	1
Fluoranthene	ND		0.54	0.086	ug/L		12/08/21 09:15	12/09/21 13:37	1
Fluorene	ND		0.54	0.062	ug/L		12/08/21 09:15	12/09/21 13:37	1
Naphthalene	**0.35**	**J**	1.1	0.069	ug/L		12/08/21 09:15	12/09/21 13:37	1
Phenanthrene	ND		0.22	0.067	ug/L		12/08/21 09:15	12/09/21 13:37	1
Pyrene	ND		0.54	0.082	ug/L		12/08/21 09:15	12/09/21 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*37 - 120*	*12/08/21 09:15*	*12/09/21 13:37*	*1*
Nitrobenzene-d5 (Surr)	*87*		*26 - 120*	*12/08/21 09:15*	*12/09/21 13:37*	*1*

Client Sample ID: PY-MW1-120321
Lab Sample ID: 480-193120-3
Date Collected: 12/03/21 12:30
Matrix: Water
Date Received: 12/07/21 11:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14	*91*		*64 - 127*	*12/08/21 09:15*	*12/09/21 13:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.015**		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:27	1

Client Sample ID: PY-DUP-120321
Lab Sample ID: 480-193120-4
Date Collected: 12/03/21 00:00
Matrix: Water
Date Received: 12/07/21 11:30

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			12/08/21 15:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 15:32	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 15:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*12/08/21 15:32*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*12/08/21 15:32*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*12/08/21 15:32*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/08/21 15:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		12/08/21 09:15	12/09/21 14:04	1
Acenaphthylene	ND		0.29	0.054	ug/L		12/08/21 09:15	12/09/21 14:04	1
Anthracene	ND		0.49	0.033	ug/L		12/08/21 09:15	12/09/21 14:04	1
Chrysene	ND		0.49	0.072	ug/L		12/08/21 09:15	12/09/21 14:04	1
Fluoranthene	ND		0.49	0.078	ug/L		12/08/21 09:15	12/09/21 14:04	1
Fluorene	ND		0.49	0.056	ug/L		12/08/21 09:15	12/09/21 14:04	1
Naphthalene	ND		0.97	0.062	ug/L		12/08/21 09:15	12/09/21 14:04	1
Phenanthrene	ND		0.19	0.060	ug/L		12/08/21 09:15	12/09/21 14:04	1
Pyrene	ND		0.49	0.074	ug/L		12/08/21 09:15	12/09/21 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*12/08/21 09:15*	*12/09/21 14:04*	*1*
Nitrobenzene-d5 (Surr)	*91*		*26 - 120*	*12/08/21 09:15*	*12/09/21 14:04*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*12/08/21 09:15*	*12/09/21 14:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:31	1

Client Sample ID: PY-MW6-120321
Lab Sample ID: 480-193120-5
Date Collected: 12/03/21 14:45
Matrix: Water
Date Received: 12/07/21 11:30

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			12/08/21 15:55	1

Client Sample ID: PY-MW6-120321
Lab Sample ID: 480-193120-5
Date Collected: 12/03/21 14:45
Matrix: Water
Date Received: 12/07/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 15:55	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 15:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*12/08/21 15:55*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*12/08/21 15:55*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*12/08/21 15:55*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/08/21 15:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		12/08/21 09:15	12/09/21 14:32	1
Acenaphthylene	ND		0.29	0.053	ug/L		12/08/21 09:15	12/09/21 14:32	1
Anthracene	ND		0.48	0.032	ug/L		12/08/21 09:15	12/09/21 14:32	1
Chrysene	ND		0.48	0.070	ug/L		12/08/21 09:15	12/09/21 14:32	1
Fluoranthene	ND		0.48	0.076	ug/L		12/08/21 09:15	12/09/21 14:32	1
Fluorene	ND		0.48	0.055	ug/L		12/08/21 09:15	12/09/21 14:32	1
Naphthalene	ND		0.95	0.061	ug/L		12/08/21 09:15	12/09/21 14:32	1
Phenanthrene	ND		0.19	0.059	ug/L		12/08/21 09:15	12/09/21 14:32	1
Pyrene	ND		0.48	0.072	ug/L		12/08/21 09:15	12/09/21 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*37 - 120*	*12/08/21 09:15*	*12/09/21 14:32*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*12/08/21 09:15*	*12/09/21 14:32*	*1*
p-Terphenyl-d14	*89*		*64 - 127*	*12/08/21 09:15*	*12/09/21 14:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:33	1

Client Sample ID: PY-MW4D-120421
Lab Sample ID: 480-193120-6
Date Collected: 12/04/21 13:00
Matrix: Water
Date Received: 12/07/21 11:30

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			12/08/21 16:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 16:18	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 16:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*12/08/21 16:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*12/08/21 16:18*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*12/08/21 16:18*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/08/21 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		12/08/21 09:15	12/09/21 14:59	1

Client Sample ID: PY-MW4D-120421
Lab Sample ID: 480-193120-6
Date Collected: 12/04/21 13:00
Matrix: Water
Date Received: 12/07/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.32	0.059	ug/L		12/08/21 09:15	12/09/21 14:59	1
Anthracene	ND		0.53	0.036	ug/L		12/08/21 09:15	12/09/21 14:59	1
Chrysene	ND		0.53	0.078	ug/L		12/08/21 09:15	12/09/21 14:59	1
Fluoranthene	ND		0.53	0.084	ug/L		12/08/21 09:15	12/09/21 14:59	1
Fluorene	ND		0.53	0.061	ug/L		12/08/21 09:15	12/09/21 14:59	1
Naphthalene	**0.67**	**J**	1.1	0.067	ug/L		12/08/21 09:15	12/09/21 14:59	1
Phenanthrene	ND		0.21	0.065	ug/L		12/08/21 09:15	12/09/21 14:59	1
Pyrene	ND		0.53	0.080	ug/L		12/08/21 09:15	12/09/21 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*37 - 120*	*12/08/21 09:15*	*12/09/21 14:59*	*1*
Nitrobenzene-d5 (Surr)	*86*		*26 - 120*	*12/08/21 09:15*	*12/09/21 14:59*	*1*
p-Terphenyl-d14	*71*		*64 - 127*	*12/08/21 09:15*	*12/09/21 14:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:34	1

Client Sample ID: PY-MW4S-120421
Lab Sample ID: 480-193120-7
Date Collected: 12/04/21 14:15
Matrix: Water
Date Received: 12/07/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1600**		40	16	ug/L			12/08/21 16:41	40
Ethylbenzene	**480**		40	30	ug/L			12/08/21 16:41	40
Toluene	**91**		40	20	ug/L			12/08/21 16:41	40
Xylenes, Total	**800**		80	26	ug/L			12/08/21 16:41	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*12/08/21 16:41*	*40*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*12/08/21 16:41*	*40*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*12/08/21 16:41*	*40*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/08/21 16:41*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**13**		2.5	0.18	ug/L		12/08/21 09:15	12/09/21 15:26	5
Acenaphthylene	**64**		1.5	0.28	ug/L		12/08/21 09:15	12/09/21 15:26	5
Anthracene	**6.3**		2.5	0.17	ug/L		12/08/21 09:15	12/09/21 15:26	5
Chrysene	ND		2.5	0.37	ug/L		12/08/21 09:15	12/09/21 15:26	5
Fluoranthene	**2.5**		2.5	0.40	ug/L		12/08/21 09:15	12/09/21 15:26	5
Fluorene	**17**		2.5	0.29	ug/L		12/08/21 09:15	12/09/21 15:26	5
Phenanthrene	**23**		1.0	0.31	ug/L		12/08/21 09:15	12/09/21 15:26	5
Pyrene	**2.2**	**J**	2.5	0.38	ug/L		12/08/21 09:15	12/09/21 15:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*12/08/21 09:15*	*12/09/21 15:26*	*5*
Nitrobenzene-d5 (Surr)	*71*		*26 - 120*	*12/08/21 09:15*	*12/09/21 15:26*	*5*
p-Terphenyl-d14	*71*		*64 - 127*	*12/08/21 09:15*	*12/09/21 15:26*	*5*

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

Job ID: 480-193120-1

Client Sample ID: PY-MW4S-120421

Lab Sample ID: 480-193120-7
Date Collected: 12/04/21 14:15
Matrix: Water
Date Received: 12/07/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2600		400	26	ug/L		12/08/21 09:15	12/10/21 11:05	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*S1-*	*37 - 120*	*12/08/21 09:15*	*12/10/21 11:05*	*400*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*26 - 120*	*12/08/21 09:15*	*12/10/21 11:05*	*400*
p-Terphenyl-d14	*0*	*S1-*	*64 - 127*	*12/08/21 09:15*	*12/10/21 11:05*	*400*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.083		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:35	1

Client Sample ID: PY-EB-120521

Lab Sample ID: 480-193120-8
Date Collected: 12/05/21 13:00
Matrix: Water
Date Received: 12/07/21 11:30

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			12/08/21 17:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 17:04	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 17:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*12/08/21 17:04*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*12/08/21 17:04*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*12/08/21 17:04*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/08/21 17:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		12/08/21 09:15	12/09/21 15:54	1
Acenaphthylene	ND		0.31	0.058	ug/L		12/08/21 09:15	12/09/21 15:54	1
Anthracene	ND		0.52	0.035	ug/L		12/08/21 09:15	12/09/21 15:54	1
Chrysene	ND		0.52	0.077	ug/L		12/08/21 09:15	12/09/21 15:54	1
Fluoranthene	ND		0.52	0.083	ug/L		12/08/21 09:15	12/09/21 15:54	1
Fluorene	ND		0.52	0.060	ug/L		12/08/21 09:15	12/09/21 15:54	1
Naphthalene	0.94	J	1.0	0.067	ug/L		12/08/21 09:15	12/09/21 15:54	1
Phenanthrene	ND		0.21	0.065	ug/L		12/08/21 09:15	12/09/21 15:54	1
Pyrene	ND		0.52	0.079	ug/L		12/08/21 09:15	12/09/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*37 - 120*	*12/08/21 09:15*	*12/09/21 15:54*	*1*
Nitrobenzene-d5 (Surr)	*63*		*26 - 120*	*12/08/21 09:15*	*12/09/21 15:54*	*1*
p-Terphenyl-d14	*75*		*64 - 127*	*12/08/21 09:15*	*12/09/21 15:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:37	1

Client Sample ID: PY-MW3A-120621
Lab Sample ID: 480-193120-9

Date Collected: 12/06/21 13:00
Matrix: Water
Date Received: 12/07/21 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**81**		1.0	0.41	ug/L			12/08/21 17:27	1
Ethylbenzene	**22**		1.0	0.74	ug/L			12/08/21 17:27	1
Toluene	**0.73**	**J**	1.0	0.51	ug/L			12/08/21 17:27	1
Xylenes, Total	**14**		2.0	0.66	ug/L			12/08/21 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*12/08/21 17:27*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*12/08/21 17:27*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*12/08/21 17:27*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/08/21 17:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		12/08/21 09:15	12/09/21 16:21	1
Acenaphthylene	**0.16**	**J**	0.32	0.060	ug/L		12/08/21 09:15	12/09/21 16:21	1
Anthracene	ND		0.53	0.036	ug/L		12/08/21 09:15	12/09/21 16:21	1
Chrysene	ND		0.53	0.079	ug/L		12/08/21 09:15	12/09/21 16:21	1
Fluoranthene	ND		0.53	0.085	ug/L		12/08/21 09:15	12/09/21 16:21	1
Fluorene	ND		0.53	0.062	ug/L		12/08/21 09:15	12/09/21 16:21	1
Naphthalene	**2.9**		1.1	0.068	ug/L		12/08/21 09:15	12/09/21 16:21	1
Phenanthrene	ND		0.21	0.066	ug/L		12/08/21 09:15	12/09/21 16:21	1
Pyrene	ND		0.53	0.081	ug/L		12/08/21 09:15	12/09/21 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*37 - 120*	*12/08/21 09:15*	*12/09/21 16:21*	*1*
Nitrobenzene-d5 (Surr)	*59*		*26 - 120*	*12/08/21 09:15*	*12/09/21 16:21*	*1*
p-Terphenyl-d14	*39*	*S1-*	*64 - 127*	*12/08/21 09:15*	*12/09/21 16:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.025**		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:38	1

Client Sample ID: TRIP BLANKS
Lab Sample ID: 480-193120-10

Date Collected: 12/07/21 00:00
Matrix: Water
Date Received: 12/07/21 11:30

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			12/08/21 17:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 17:50	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 17:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*12/08/21 17:50*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/08/21 17:50*	*1*
Dibromofluoromethane (Surr)	*122*		*75 - 123*		*12/08/21 17:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/08/21 17:50*	*1*

Surrogate Summary

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

Job ID: 480-193120-1

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)
480-193120-1	PY-MW2D-120221	104	106	112	97
480-193120-1 MS	PY-MW2D-120221	99	101	110	98
480-193120-1 MSD	PY-MW2D-120221	103	107	108	101
480-193120-2	PY-MW2S-120221	104	103	113	96
480-193120-3	PY-MW1-120321	109	104	112	95
480-193120-4	PY-DUP-120321	105	106	115	98
480-193120-5	PY-MW6-120321	101	106	109	98
480-193120-6	PY-MW4D-120421	106	104	114	95
480-193120-7	PY-MW4S-120421	113	108	112	98
480-193120-8	PY-EB-120521	106	106	118	98
480-193120-9	PY-MW3A-120621	106	108	110	98
480-193120-10	TRIP BLANKS	104	107	122	98
LCS 480-607966/6	Lab Control Sample	106	104	109	98
MB 480-607966/8	Method Blank	101	103	111	97

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
480-193120-1	PY-MW2D-120221	109	89	99
480-193120-1 MS	PY-MW2D-120221	98	86	72
480-193120-1 MSD	PY-MW2D-120221	98	81	75
480-193120-2	PY-MW2S-120221	113	94	110
480-193120-3	PY-MW1-120321	107	87	91
480-193120-4	PY-DUP-120321	109	91	99
480-193120-5	PY-MW6-120321	101	85	89
480-193120-6	PY-MW4D-120421	105	86	71
480-193120-7	PY-MW4S-120421	95	71	71
480-193120-7 - DL	PY-MW4S-120421	0 S1-	0 S1-	0 S1-
480-193120-8	PY-EB-120521	89	63	75
480-193120-9	PY-MW3A-120621	75	59	39 S1-
LCS 480-607957/2-A	Lab Control Sample	100	84	100
MB 480-607957/1-A	Method Blank	101	83	104

Surrogate Legend

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

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

Lab Sample ID: MB 480-607966/8
Matrix: Water
Analysis Batch: 607966

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			12/08/21 13:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/08/21 13:21	1
Toluene	ND		1.0	0.51	ug/L			12/08/21 13:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/08/21 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*12/08/21 13:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/08/21 13:21*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*12/08/21 13:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/08/21 13:21*	*1*

Lab Sample ID: LCS 480-607966/6
Matrix: Water
Analysis Batch: 607966

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	26.6		ug/L		107	71 - 124		
Ethylbenzene			25.0	27.4		ug/L		109	77 - 123		
Toluene			25.0	27.1		ug/L		108	80 - 122		
Xylenes, Total			50.0	57.4		ug/L		115	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 480-193120-1 MS
Matrix: Water
Analysis Batch: 607966

Client Sample ID: PY-MW2D-120221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		25.0	29.8		ug/L		119	71 - 124		
Ethylbenzene	ND		25.0	29.4		ug/L		118	77 - 123		
Toluene	ND		25.0	29.9		ug/L		120	80 - 122		
Xylenes, Total	ND	F1	50.0	60.3		ug/L		121	76 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: 480-193120-1 MSD
Matrix: Water
Analysis Batch: 607966

Client Sample ID: PY-MW2D-120221
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	28.6		ug/L		114	71 - 124	4	13
Ethylbenzene	ND		25.0	30.1		ug/L		120	77 - 123	2	15
Toluene	ND		25.0	30.3		ug/L		121	80 - 122	1	15
Xylenes, Total	ND	F1	50.0	62.0	F1	ug/L		124	76 - 122	3	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 480-607957/1-A
Matrix: Water
Analysis Batch: 608159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		12/08/21 09:15	12/09/21 10:53	1
Acenaphthylene	ND		0.30	0.056	ug/L		12/08/21 09:15	12/09/21 10:53	1
Anthracene	ND		0.50	0.034	ug/L		12/08/21 09:15	12/09/21 10:53	1
Chrysene	ND		0.50	0.074	ug/L		12/08/21 09:15	12/09/21 10:53	1
Fluoranthene	ND		0.50	0.080	ug/L		12/08/21 09:15	12/09/21 10:53	1
Fluorene	ND		0.50	0.058	ug/L		12/08/21 09:15	12/09/21 10:53	1
Naphthalene	ND		1.0	0.064	ug/L		12/08/21 09:15	12/09/21 10:53	1
Phenanthrene	ND		0.20	0.062	ug/L		12/08/21 09:15	12/09/21 10:53	1
Pyrene	ND		0.50	0.076	ug/L		12/08/21 09:15	12/09/21 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*37 - 120*	*12/08/21 09:15*	*12/09/21 10:53*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*12/08/21 09:15*	*12/09/21 10:53*	*1*
p-Terphenyl-d14	*104*		*64 - 127*	*12/08/21 09:15*	*12/09/21 10:53*	*1*

Lab Sample ID: LCS 480-607957/2-A
Matrix: Water
Analysis Batch: 608159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	8.00	7.88		ug/L		99	62 - 120
Acenaphthylene	8.00	7.52		ug/L		94	57 - 120
Anthracene	8.00	8.24		ug/L		103	65 - 123
Chrysene	8.00	7.58		ug/L		95	75 - 120
Fluoranthene	8.00	8.76		ug/L		109	74 - 133
Fluorene	8.00	8.19		ug/L		102	64 - 120
Naphthalene	8.00	7.54		ug/L		94	40 - 138
Phenanthrene	8.00	8.18		ug/L		102	71 - 122
Pyrene	8.00	7.92		ug/L		99	65 - 126

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

Lab Sample ID: LCS 480-607957/2-A
Matrix: Water
Analysis Batch: 608159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607957

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	100		37 - 120
Nitrobenzene-d5 (Surr)	84		26 - 120
p-Terphenyl-d14	100		64 - 127

Lab Sample ID: 480-193120-1 MS
Matrix: Water
Analysis Batch: 608159

Client Sample ID: PY-MW2D-120221
Prep Type: Total/NA
Prep Batch: 607957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		8.00	7.62		ug/L		95	35 - 125
Acenaphthylene	ND		8.00	7.26		ug/L		91	43 - 141
Anthracene	ND		8.00	7.71		ug/L		96	65 - 123
Chrysene	ND	F2 F1	8.00	5.24		ug/L		66	66 - 144
Fluoranthene	ND		8.00	6.54		ug/L		82	63 - 146
Fluorene	ND		8.00	7.74		ug/L		97	54 - 137
Naphthalene	ND		8.00	7.42		ug/L		93	25 - 138
Phenanthrene	ND		8.00	7.53		ug/L		94	60 - 143
Pyrene	ND		8.00	6.64		ug/L		83	65 - 139

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	98		37 - 120
Nitrobenzene-d5 (Surr)	86		26 - 120
p-Terphenyl-d14	72		64 - 127

Lab Sample ID: 480-193120-1 MSD
Matrix: Water
Analysis Batch: 608159

Client Sample ID: PY-MW2D-120221
Prep Type: Total/NA
Prep Batch: 607957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		7.62	7.10		ug/L		93	35 - 125	7	24
Acenaphthylene	ND		7.62	6.88		ug/L		90	43 - 141	5	18
Anthracene	ND		7.62	7.13		ug/L		94	65 - 123	8	15
Chrysene	ND	F2 F1	7.62	4.13	F2 F1	ug/L		54	66 - 144	24	15
Fluoranthene	ND		7.62	6.95		ug/L		91	63 - 146	6	15
Fluorene	ND		7.62	7.35		ug/L		96	54 - 137	5	15
Naphthalene	ND		7.62	6.68		ug/L		88	25 - 138	11	29
Phenanthrene	ND		7.62	6.97		ug/L		92	60 - 143	8	15
Pyrene	ND		7.62	6.72		ug/L		88	65 - 139	1	19

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	98		37 - 120
Nitrobenzene-d5 (Surr)	81		26 - 120
p-Terphenyl-d14	75		64 - 127

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-607986/1-A
Matrix: Water
Analysis Batch: 608007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/08/21 10:32	12/08/21 11:14	1

Lab Sample ID: LCS 480-607986/2-A
Matrix: Water
Analysis Batch: 608007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.401		mg/L		100	90 - 110

Lab Sample ID: LCS 480-607986/3-A
Matrix: Water
Analysis Batch: 608007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.243		mg/L		97	90 - 110

Lab Sample ID: MB 480-608004/1-A
Matrix: Water
Analysis Batch: 608047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/08/21 11:36	12/08/21 13:10	1

Lab Sample ID: LCS 480-608004/2-A
Matrix: Water
Analysis Batch: 608047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.254		mg/L		102	90 - 110

Lab Sample ID: 480-193120-1 MS
Matrix: Water
Analysis Batch: 608047

Client Sample ID: PY-MW2D-120221
Prep Type: Total/NA
Prep Batch: 608004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0074	J	0.100	0.110		mg/L		103	90 - 110

Lab Sample ID: 480-193120-1 MSD
Matrix: Water
Analysis Batch: 608047

Client Sample ID: PY-MW2D-120221
Prep Type: Total/NA
Prep Batch: 608004

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0074	J	0.100	0.114		mg/L		107	90 - 110	4	15

GC/MS VOA

Analysis Batch: 607966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-1	PY-MW2D-120221	Total/NA	Water	8260C	
480-193120-2	PY-MW2S-120221	Total/NA	Water	8260C	
480-193120-3	PY-MW1-120321	Total/NA	Water	8260C	
480-193120-4	PY-DUP-120321	Total/NA	Water	8260C	
480-193120-5	PY-MW6-120321	Total/NA	Water	8260C	
480-193120-6	PY-MW4D-120421	Total/NA	Water	8260C	
480-193120-7	PY-MW4S-120421	Total/NA	Water	8260C	
480-193120-8	PY-EB-120521	Total/NA	Water	8260C	
480-193120-9	PY-MW3A-120621	Total/NA	Water	8260C	
480-193120-10	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-607966/8	Method Blank	Total/NA	Water	8260C	
LCS 480-607966/6	Lab Control Sample	Total/NA	Water	8260C	
480-193120-1 MS	PY-MW2D-120221	Total/NA	Water	8260C	
480-193120-1 MSD	PY-MW2D-120221	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 607957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-1	PY-MW2D-120221	Total/NA	Water	3510C	
480-193120-2	PY-MW2S-120221	Total/NA	Water	3510C	
480-193120-3	PY-MW1-120321	Total/NA	Water	3510C	
480-193120-4	PY-DUP-120321	Total/NA	Water	3510C	
480-193120-5	PY-MW6-120321	Total/NA	Water	3510C	
480-193120-6	PY-MW4D-120421	Total/NA	Water	3510C	
480-193120-7	PY-MW4S-120421	Total/NA	Water	3510C	
480-193120-7 - DL	PY-MW4S-120421	Total/NA	Water	3510C	
480-193120-8	PY-EB-120521	Total/NA	Water	3510C	
480-193120-9	PY-MW3A-120621	Total/NA	Water	3510C	
MB 480-607957/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-607957/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-193120-1 MS	PY-MW2D-120221	Total/NA	Water	3510C	
480-193120-1 MSD	PY-MW2D-120221	Total/NA	Water	3510C	

Analysis Batch: 608159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-1	PY-MW2D-120221	Total/NA	Water	8270D LL	607957
480-193120-2	PY-MW2S-120221	Total/NA	Water	8270D LL	607957
480-193120-3	PY-MW1-120321	Total/NA	Water	8270D LL	607957
480-193120-4	PY-DUP-120321	Total/NA	Water	8270D LL	607957
480-193120-5	PY-MW6-120321	Total/NA	Water	8270D LL	607957
480-193120-6	PY-MW4D-120421	Total/NA	Water	8270D LL	607957
480-193120-7	PY-MW4S-120421	Total/NA	Water	8270D LL	607957
480-193120-8	PY-EB-120521	Total/NA	Water	8270D LL	607957
480-193120-9	PY-MW3A-120621	Total/NA	Water	8270D LL	607957
MB 480-607957/1-A	Method Blank	Total/NA	Water	8270D LL	607957
LCS 480-607957/2-A	Lab Control Sample	Total/NA	Water	8270D LL	607957
480-193120-1 MS	PY-MW2D-120221	Total/NA	Water	8270D LL	607957
480-193120-1 MSD	PY-MW2D-120221	Total/NA	Water	8270D LL	607957

GC/MS Semi VOA

Analysis Batch: 608347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-7 - DL	PY-MW4S-120421	Total/NA	Water	8270D LL	607957

General Chemistry

Prep Batch: 607986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-2	PY-MW2S-120221	Total/NA	Water	9012B	
480-193120-3	PY-MW1-120321	Total/NA	Water	9012B	
480-193120-4	PY-DUP-120321	Total/NA	Water	9012B	
480-193120-5	PY-MW6-120321	Total/NA	Water	9012B	
480-193120-6	PY-MW4D-120421	Total/NA	Water	9012B	
480-193120-7	PY-MW4S-120421	Total/NA	Water	9012B	
480-193120-8	PY-EB-120521	Total/NA	Water	9012B	
480-193120-9	PY-MW3A-120621	Total/NA	Water	9012B	
MB 480-607986/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-607986/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-607986/3-A	Lab Control Sample	Total/NA	Water	9012B	

Prep Batch: 608004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-1	PY-MW2D-120221	Total/NA	Water	9012B	
MB 480-608004/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-608004/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-193120-1 MS	PY-MW2D-120221	Total/NA	Water	9012B	
480-193120-1 MSD	PY-MW2D-120221	Total/NA	Water	9012B	

Analysis Batch: 608007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-2	PY-MW2S-120221	Total/NA	Water	9012B	607986
480-193120-3	PY-MW1-120321	Total/NA	Water	9012B	607986
480-193120-4	PY-DUP-120321	Total/NA	Water	9012B	607986
480-193120-5	PY-MW6-120321	Total/NA	Water	9012B	607986
480-193120-6	PY-MW4D-120421	Total/NA	Water	9012B	607986
480-193120-7	PY-MW4S-120421	Total/NA	Water	9012B	607986
480-193120-8	PY-EB-120521	Total/NA	Water	9012B	607986
480-193120-9	PY-MW3A-120621	Total/NA	Water	9012B	607986
MB 480-607986/1-A	Method Blank	Total/NA	Water	9012B	607986
LCS 480-607986/2-A	Lab Control Sample	Total/NA	Water	9012B	607986
LCS 480-607986/3-A	Lab Control Sample	Total/NA	Water	9012B	607986

Analysis Batch: 608047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193120-1	PY-MW2D-120221	Total/NA	Water	9012B	608004
MB 480-608004/1-A	Method Blank	Total/NA	Water	9012B	608004
LCS 480-608004/2-A	Lab Control Sample	Total/NA	Water	9012B	608004
480-193120-1 MS	PY-MW2D-120221	Total/NA	Water	9012B	608004
480-193120-1 MSD	PY-MW2D-120221	Total/NA	Water	9012B	608004

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-193120-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: PY-MW2D-120221
Lab Sample ID: 480-193120-1
Date Collected: 12/02/21 13:45
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 14:21	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 12:42	JMM	TAL BUF
Total/NA	Prep	9012B			608004	12/08/21 11:36	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608047	12/08/21 13:15	JGO	TAL BUF

Client Sample ID: PY-MW2S-120221
Lab Sample ID: 480-193120-2
Date Collected: 12/02/21 16:30
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 14:44	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 13:10	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:25	JGO	TAL BUF

Client Sample ID: PY-MW1-120321
Lab Sample ID: 480-193120-3
Date Collected: 12/03/21 12:30
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 15:09	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 13:37	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:27	JGO	TAL BUF

Client Sample ID: PY-DUP-120321
Lab Sample ID: 480-193120-4
Date Collected: 12/03/21 00:00
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 15:32	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 14:04	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:31	JGO	TAL BUF

Client Sample ID: PY-MW6-120321
Lab Sample ID: 480-193120-5
Date Collected: 12/03/21 14:45
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 15:55	CRL	TAL BUF

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-193120-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: PY-MW6-120321
Lab Sample ID: 480-193120-5
Date Collected: 12/03/21 14:45
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 14:32	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:33	JGO	TAL BUF

Client Sample ID: PY-MW4D-120421
Lab Sample ID: 480-193120-6
Date Collected: 12/04/21 13:00
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 16:18	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 14:59	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:34	JGO	TAL BUF

Client Sample ID: PY-MW4S-120421
Lab Sample ID: 480-193120-7
Date Collected: 12/04/21 14:15
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	607966	12/08/21 16:41	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		5	608159	12/09/21 15:26	JMM	TAL BUF
Total/NA	Prep	3510C	DL		607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL	DL	400	608347	12/10/21 11:05	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:35	JGO	TAL BUF

Client Sample ID: PY-EB-120521
Lab Sample ID: 480-193120-8
Date Collected: 12/05/21 13:00
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 17:04	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 15:54	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:37	JGO	TAL BUF

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-193120-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: PY-MW3A-120621
Lab Sample ID: 480-193120-9
Date Collected: 12/06/21 13:00
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 17:27	CRL	TAL BUF
Total/NA	Prep	3510C			607957	12/08/21 09:15	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	608159	12/09/21 16:21	JMM	TAL BUF
Total/NA	Prep	9012B			607986	12/08/21 10:32	RJM	TAL BUF
Total/NA	Analysis	9012B		1	608007	12/08/21 11:38	JGO	TAL BUF

Client Sample ID: TRIP BLANKS
Lab Sample ID: 480-193120-10
Date Collected: 12/07/21 00:00
Matrix: Water
Date Received: 12/07/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	607966	12/08/21 17:50	CRL	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State Electric & Gas
Job ID: 480-193120-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Method Summary

Client: New York State Electric & Gas
Job ID: 480-193120-1
Project/Site: NYSEG Former MGP Site - Penn Yan

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: New York State Electric & Gas
Job ID: 480-193120-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193120-1	PY-MW2D-120221	Water	12/02/21 13:45	12/07/21 11:30
480-193120-2	PY-MW2S-120221	Water	12/02/21 16:30	12/07/21 11:30
480-193120-3	PY-MW1-120321	Water	12/03/21 12:30	12/07/21 11:30
480-193120-4	PY-DUP-120321	Water	12/03/21 00:00	12/07/21 11:30
480-193120-5	PY-MW6-120321	Water	12/03/21 14:45	12/07/21 11:30
480-193120-6	PY-MW4D-120421	Water	12/04/21 13:00	12/07/21 11:30
480-193120-7	PY-MW4S-120421	Water	12/04/21 14:15	12/07/21 11:30
480-193120-8	PY-EB-120521	Water	12/05/21 13:00	12/07/21 11:30
480-193120-9	PY-MW3A-120621	Water	12/06/21 13:00	12/07/21 11:30
480-193120-10	TRIP BLANKS	Water	12/07/21 00:00	12/07/21 11:30

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: Nen-Vella LLC	Lab PM: Schove, John R	Carrier Tracking No(s): FEDEX	COC No: 480-168114-36782.1
Client Contact: Mr. Tracy Blazicek	Phone: Kyle R. Miller 585 478 7666	E-Mail: John.Schove@Eurofinset.com	State of Origin: NY	Page: Page 1 of X 1 KRM
Company: New York State Electric & Gas	PWSID:			Job #: NV 2021193
Address: PO BOX 5224	Due Date Requested: Per NYSEG			
City: Binghamton	TAT Requested (days): Per NYSEG			
State, Zip: NY, 13902	Compliance Project: \ Yes \ No			
Phone: 585-484-6839(Tel)	PO #: 4505616925			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: Penn Yan Jackson St. Former MGP Site	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code				A	N	B		
PY-MW2D-120221	12/2/21	13:45	G	Water	N	Y	X	X	X		MS/MSD. Near 7-Day Hold Time
PY-MW2S-120221	12/2/21	16:30	G	Water	N	N	X	X	X		Near 7-Day Hold Time
PY-MW1-120321	12/3/21	12:30	G	Water	N	N	X	X	X		
PY-DUP-120321	12/3/21	—	G	Water	N	N	X	X	X		Duplicate
PY-MW6-120321	12/3/21	14:45	G	Water	N	N	X	X	X		
PY-MW4D-120421	12/4/21	13:00	G	Water	N	N	X	X	X		
PY-MW4S-120421	12/4/21	14:15	G	Water	N	N	X	X	X		
PY-EB-120521	12/5/21	13:00	G	Water	N	N	X	X	X		Equip. Blank
PY-MW3A-120621	12/6/21	13:00	G	Water	N	N	X	X	X		
Trip Blanks				Water	N	N	X				
				Water							

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Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sa

☐ Return To Client ☒ Disposal By Lat

480-193120 Chain of Custody

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

Special Instructions/QC Requirements: Plus NYSDEC EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Kyle R. Miller	Date/Time: 12/6/21 p.m.	Company: Nen-Vella	Received by: FEDEX
Relinquished by:	Date/Time:	Company	Received by: Cwattele
Relinquished by:	Date/Time:	Company	Received by:

Date/Time:	Company
12/6/21 p.m.	FedEx
12/7/21 11:30	TAS
Date/Time:	Company

Custody Seals Intact: \ Yes \ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.9, 3.5, 3.7

12/14/2021

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-193120-1

Login Number: 193120
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

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