NEU-VELLE LLC

April 26, 2024

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

Re: 2nd 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 second (2nd) 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 was collected from eight (8) monitoring wells at the Site (MW-1, MW-2S, MW-2D, MW-3A, MW-4S, MW-4D, MW-5, and MW-6) on April 28, 2023, prior to the start of groundwater sampling activities. 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 April 28 through May 8, 2023, the GWMP samples were collected from the eight (8) groundwater monitoring wells at the Site (MW-1, MW-2S, MW-2D, MW-3A, MW-4S, MW-4D, MW-5 and MW-6). A stainless-steel bladder pump equipped with a new polyethylene bladder and new polyethylene tubing was used at each sampling location.

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 was removed from the Site on March 21, 2024, by Clean Harbors and transported for off-Site disposal.

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 (MW-1, MW-3A, and MW-4S). Benzene was detected above its TOGS 1.1.1 Class GA SCG (1 µg/L) in MW-1, MW-3A, and MW-4S at concentrations of 5.4 micrograms per liter (µg/L) or parts per billion (ppb), 100 µg/L, and 380 µg/L, respectively. Toluene, ethylbenzene, and xylenes (total) were each detected in MW-3A and MW-4S, at concentrations above their respective TOGS 1.1.1 Class GA SCG level (5 µg/L), with the exception of toluene in MW-3A (estimated at 0.72 J µg/L).

- PAHs were detected above laboratory reporting limits in four (4) of the groundwater samples collected (MW-1, MW-3A, MW-4D and MW-4S) and detected (and given estimated concentrations) below reporting limits in five (5) of the groundwater samples collected (MW-2S, MW-3A, MW-4D, MW-4S, MW-5 and MW-6). Seven (7) PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene) were detected at concentrations above their respective TOGS 1.1.1 Class GA SCG; these include:

    - MW-2S - benzo(b)fluoranthene (0.01 J µg/L);
    - MW-3A - benzo(a)anthracene (0.02 J µg/L);
    - MW-4D - benzo(a)anthracene (0.11 µg/L), benzo(a)pyrene (0.14 µg/L), benzo(b)fluoranthene (0.11 µg/L), benzo(k)fluoranthene (0.03 J µg/L), chrysene (0.09 J µg/L), and indeno(1,2,3-cd)pyrene (0.06 J µg/L);
    - MW-4S - benzo(a)anthracene (0.45 J µg/L), benzo(a)pyrene (0.25 J µg/L), benzo(b)fluoranthene (0.20 J µg/L), benzo(k)fluoranthene (0.09 J µg/L), chrysene (0.23 J µg/L), and naphthalene (1,400 µg/L);
    - MW-5 - benzo(a)anthracene (0.03 J µg/L), benzo(a)pyrene (0.04 J µg/L), benzo(b)fluoranthene (0.07 J µg/L), benzo(k)fluoranthene (0.03 J µg/L), chrysene (0.05 J µg/L), and indeno(1,2,3-cd)pyrene (0.05 J µg/L);
    - MW-6 - benzo(a)anthracene (0.03 J µg/L), benzo(b)fluoranthene (0.01 J µg/L), chrysene (0.01 J µg/L), and indeno(1,2,3-cd)pyrene (0.05 J µg/L).

  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 (MW-3A [0.036 milligrams per liter (mg/L) or parts per million (ppm)], MW-4S [2.05 mg/L] and MW-6 [0.237 mg/L]) and detected (and given estimated concentrations) below reporting limits in three (3) of the groundwater samples collected (MW-2D, MW-4D, and MW-5). The reported

10 Jones Avenue, Rochester, New York 14608
WWW.NEU-VELLE.COM

concentrations of total cyanide in monitoring wells MW-4S and MW-6 were above 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, PAHs, nor total cyanide were reported in the "equipment blank" sample.
- No BTEX compounds were detected in the Trip Blank sample.
- Similar results for BTEX, PAHs, and total cyanide were reported in the blind duplicate sample collected at MW-4D.

Groundwater Mapping

A groundwater contour map (see **Figure 2**) was prepared based on the water level data collected at the Site on April 28, 2023. 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 second (2nd) 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 (MW-1, MW-3A, and MW-4S). Seven (7) PAHs (benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene) were detected at concentrations above their respective TOGS 1.1.1 Class GA SCGs in six monitoring wells. Concentrations of total cyanide were detected above laboratory reporting limits in three (3) of the groundwater samples collected (MW-3A, MW-4S, and MW-6) and detected (and given estimated concentrations) below reporting limits in three (3) of the groundwater samples collected (MW-2D, MW-4D, and MW-5), all of which were below the TOGS 1.1.1, Class GA SCG for total cyanide (0.2 mg/L) except for in MW-4S and MW-6 in which they were above the TOGS 1.1.1, Class GA SCG.

The groundwater contour map for April 28, 2023 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 August 2024) 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 – April 2023 Groundwater Elevation Contours
Figure 3 – Spring2023 Analytical Detections in Groundwater
Attachment 1 – Groundwater Sample Logs
Exhibit A – Laboratory Reports

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)	Depth to Water (ft bgs)	Groundwater Elevation (ft)
		12/1/2021		4/28/2023	
MW-1	754.49	9.43	745.06	9.00	745.49
MW-2D	754.22	10.60	743.62	11.50	742.72
MW-2S	753.76	9.52	744.24	9.00	744.76
MW-3A	752.48	11.15	741.33	11.60	740.88
MW-4D	754.33	11.78	742.55	11.90	742.43
MW-4S	753.02	12.14	740.88	13.00	740.02
MW-5	749.99	NM*	NA	7.60	742.39
MW-6	751.85	10.30	741.55	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			MW-1		MW-1		MW-2D		MW-2D		MW-2S		MW-2S		MW-3A		MW-3A	
Sample Date			12/3/2021		5/3/2023		12/2/2021		5/4/2023		12/2/2021		5/4/2023		12/6/2021		5/8/2023	
Sample Identification			PY-MW-1-120321		MW-1-050323		PY-MW-2D-120221		MW-2D-050423		PY-MW-2S-120221		MW-2S-050423		PY-MW-3A-120621		MW-3A-050823	
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	**5.4**	0.50	ND	1.0	ND	0.50	ND	1.0	ND	0.50	**81**	1.0	**100**	0.50
Ethylbenzene	5	µg/L	ND	1.0	ND	2.5	ND	1.0	ND	2.5	ND	1.0	ND	2.5	**22**	1.0	**28**	2.5
Toluene	5	µg/L	ND	1.0	ND	2.5	ND	1.0	ND	2.5	ND	1.0	ND	2.5	**0.73 J**	1.0	**0.72 J**	2.5
Xylenes, Total	5	µg/L	ND	2.0	ND	2.5	ND F1	2.0	ND	2.5	ND	2.0	ND	2.5	**14**	2.0	**5.6 J**	2.5
PAHs																		
Acenaphthene	20	µg/L	ND	0.54	ND	0.10	ND	0.49	ND	0.10	ND	0.53	ND	0.10	ND	0.53	**0.01 J**	0.10
Acenaphthylene	NS	µg/L	ND	0.32	ND	0.10	ND	0.29	ND	0.10	ND	0.32	ND	0.10	**0.16 J**	0.32	**0.21**	0.10
Anthracene	50	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10
Benzo(a)anthracene	0.002	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	**0.02 J**	0.10
Benzo(a)pyrene	ND	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10
Benzo(b)fluoranthene	0.002	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	**0.01 J**	0.10	NT	NT	ND	0.10
Benzo(k)fluoranthene	0.002	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10
Benzo(ghi)perylene	NS	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10
Chrysene	0.002	µg/L	ND	0.49	ND	0.10	ND F1 F2	0.49	ND	0.10	ND	0.49	ND	0.10	ND	0.53	ND	0.10
Dibenzo(a,h)anthracene	NS	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10
Fluoranthene	50	µg/L	ND	0.54	ND	0.10	ND	0.49	ND	0.10	**0.11 J**	0.53	**0.03 J**	0.10	ND	0.53	ND	0.10
Fluorene	50	µg/L	ND	0.54	ND	0.10	ND	0.49	ND	0.10	ND	0.53	ND	0.10	ND	0.53	ND	0.10
Indeno(1,2,3-cd) pyrene	0.002	µg/L	NT	NT	ND	0.10	ND	0.49	ND	0.10	ND	0.49	ND	0.10	ND	0.49	ND	0.10
Naphthalene	10	µg/L	**0.35 J**	1.1	**0.19**	0.10	ND	0.97	ND	0.10	ND	1.1	ND	0.10	**2.9**	1.1	**0.66**	0.10
Phenanthrene	50	µg/L	ND	0.22	ND	0.10	ND	0.19	ND	0.10	ND	0.21	ND	0.10	ND	0.21	ND	0.10
Pyrene	50	µg/L	ND	0.54	ND	0.10	ND	0.49	ND	0.10	ND	0.53	**0.02 J**	0.10	ND	0.53	ND	0.10
2-Chloronapthalene	10	µg/L	NT	NT	ND	0.20	NT	NT	ND	0.20	NT	NT	ND	0.20	NT	NT	ND	0.20
2-Methylnaphthalene	NS	µg/L	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10	NT	NT	ND	0.10
Cyanide																		
Cyanide, Total	0.2	mg/L	**0.015**	0.010	ND	0.005	**0.0074 J**	0.010	**0.002 J**	0.005	ND	0.010	ND	0.005	**0.025**	0.010	**0.036**	0.005

Notes:
1. µg/L = micrograms per liter
2. mg/L = milligrams per liter
3. "NS" = no standard, "ND" = non-detect, and "NT" = not tested
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"

Table 2
Groundwater Sample Analytical Results

Sample Location			MW-4D		MW-4D		MW-4D (DUPLICATE)		MW-4S		MW-4S		MW-5		MW-6		MW-6 (DUPLICATE)		MW-6	
Sample Date			12/4/2021		4/28/2023				12/4/2021		4/28/2023		5/5/2023		12/3/2021				5/5/2023	
Sample Identification			PY-MW-4D-120421		MW-4D-042823		DUP-042823		PY-MW-4S-120421		MW-4S-042823		MW-5-050523		PY-MW-6-120321		PY-DUP-120321		MW-6-050523	
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	Result	Reporting Limit
BTEX																				
Benzene	1	µg/L	ND	1.0	ND	0.5	ND	0.5	**1,600**	40	**380**	5	ND	0.50	ND	1.0	ND	1.0	ND	0.50
Ethylbenzene	5	µg/L	ND	1.0	ND	2.5	ND	2.5	**480**	40	**110**	25	ND	2.5	ND	1.0	ND	1.0	ND	2.5
Toluene	5	µg/L	ND	1.0	ND	2.5	ND	2.5	**91**	40	**22** J	25	ND	2.5	ND	1.0	ND	1.0	ND	2.5
Xylenes, Total	5	µg/L	ND	2.0	ND	2.5	ND	2.5	**800**	80	**230**	25	ND	2.5	ND	2.0	ND	2.0	ND	2.5
PAHs																				
Acenaphthene	20	µg/L	ND	0.53	ND	0.10	**0.02** J	0.10	**13**	2.5	**5**	1.00	ND	0.10	ND	0.48	ND	0.49	ND	0.10
Acenaphthylene	NS	µg/L	ND	0.32	**0.07** J	0.10	**0.11**	0.10	**64**	1.5	**35**	1.00	ND	0.10	ND	0.29	ND	0.29	ND	0.10
Anthracene	50	µg/L	ND	0.53	**0.08** J	0.10	**0.13**	0.10	**6.3**	2.5	**3.2**	1.00	ND	0.10	ND	0.48	ND	0.49	ND	0.10
Benzo(a)anthracene	0.002	µg/L	ND	0.49	**0.11**	0.10	**0.18**	0.10	ND	2.5	**0.45** J	1.00	**0.03** J	0.10	ND	0.48	ND	0.49	**0.03** J	0.10
Benzo(a)pyrene	ND	µg/L	ND	0.49	**0.14**	0.10	**0.24**	0.10	ND	2.5	**0.25** J	1.00	**0.04** J	0.10	ND	0.48	ND	0.49	ND	0.10
Benzo(b)fluoranthene	0.002	µg/L	ND	0.49	**0.11**	0.10	**0.18**	0.10	ND	2.5	**0.20** J	1.00	**0.07** J	0.10	ND	0.48	ND	0.49	**0.01** J	0.10
Benzo(k)fluoranthene	0.002	µg/L	ND	0.49	**0.03** J	0.10	**0.05** J	0.10	ND	2.5	**0.09** J	1.00	**0.03** J	0.10	ND	0.48	ND	0.49	ND	0.10
Benzo(ghi)perylene	NS	µg/L	ND	0.49	**0.07** J	0.10	**0.12**	0.10	ND	2.5	ND	1.00	**0.05** J	0.10	ND	0.48	ND	0.49	ND	0.10
Chrysene	0.002	µg/L	ND	0.49	**0.09** J	0.10	**0.15**	0.10	ND	2.5	**0.23** J	1.00	**0.05** J	0.10	ND	0.48	ND	0.49	**0.01** J	0.10
Dibenzo(a,h)anthracene	NS	µg/L	ND	0.53	**0.01** J	0.10	**0.02** J	0.10	ND	2.5	ND	1.00	ND	0.10	ND	0.48	ND	0.49	ND	0.10
Fluoranthene	50	µg/L	ND	0.53	**0.15**	0.10	**0.26**	0.10	**2.5**	2.5	**1.7**	1.00	**0.10**	0.10	ND	0.48	ND	0.49	**0.03** J	0.10
Fluorene	50	µg/L	ND	0.53	**0.04** J	0.10	**0.08** J	0.10	**17**	2.5	**8**	1.00	ND	0.10	ND	0.48	ND	0.49	ND	0.10
Indeno(1,2,3-cd) pyrene	0.002	µg/L	ND	0.49	**0.06** J	0.10	**0.09** J	0.10	ND	2.5	ND	1.00	**0.05** J	0.10	ND	0.48	ND	0.49	**0.05** J	0.10
Naphthalene	10	µg/L	**0.67** J	1.1	**0.47**	0.1	**0.56**	0.10	**2,600**	400	**1,400**	5.0	ND	0.10	ND	0.95	ND	0.97	ND	0.10
Phenanthrene	50	µg/L	ND	0.21	**0.24**	0.10	**0.39**	0.10	**23**	1.0	**8.4**	1.00	**0.04** J	0.10	ND	0.19	ND	0.19	**0.04** J	0.10
Pyrene	50	µg/L	ND	0.53	**0.22**	0.10	**0.37**	0.10	**2.2** J	2.5	**1.6**	1.00	ND	0.10	ND	0.48	ND	0.49	**0.08** J	0.10
2-Chloronapthalene	10	µg/L	NT	NT	ND	0.20	ND	0.20	NT	NT	ND	2.00	ND	0.20	NT	NT	NT	NT	ND	0.20
2-Methylnaphthalene	NS	µg/L	NT	NT	**0.09** J	0.10	**0.13**	0.10	NT	NT	**74**	1.00	ND	0.10	NT	NT	NT	NT	ND	0.10
Cyanide																				
Cyanide, Total	0.2	mg/L	ND	0.010	**0.003** J	0.005	ND	0.005	**0.083**	0.010	**2.05**	0.025	**0.001** J	0.005	ND	0.010	ND	0.010	**0.237**	0.005

Notes:

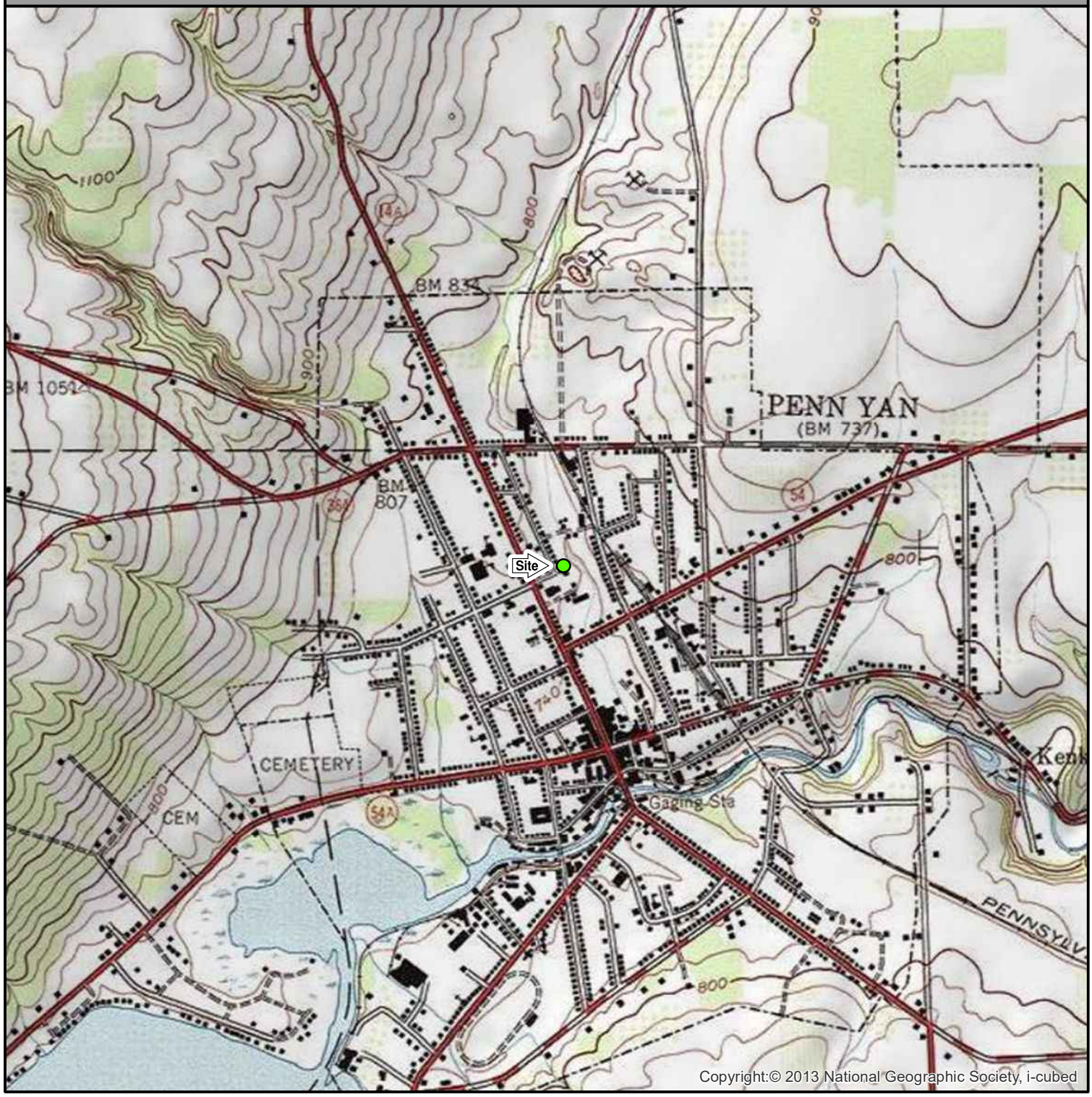
1. µg/L = micrograms per liter
2. mg/L = milligrams per liter
3. "NS" = no standard, "ND" = non-detect, and "NT" = not tested
4. Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
5. **Bold Sample 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

FIGURE 1

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



NEW YORK STATE
- YATES COUNTY

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

SITE LOCATION

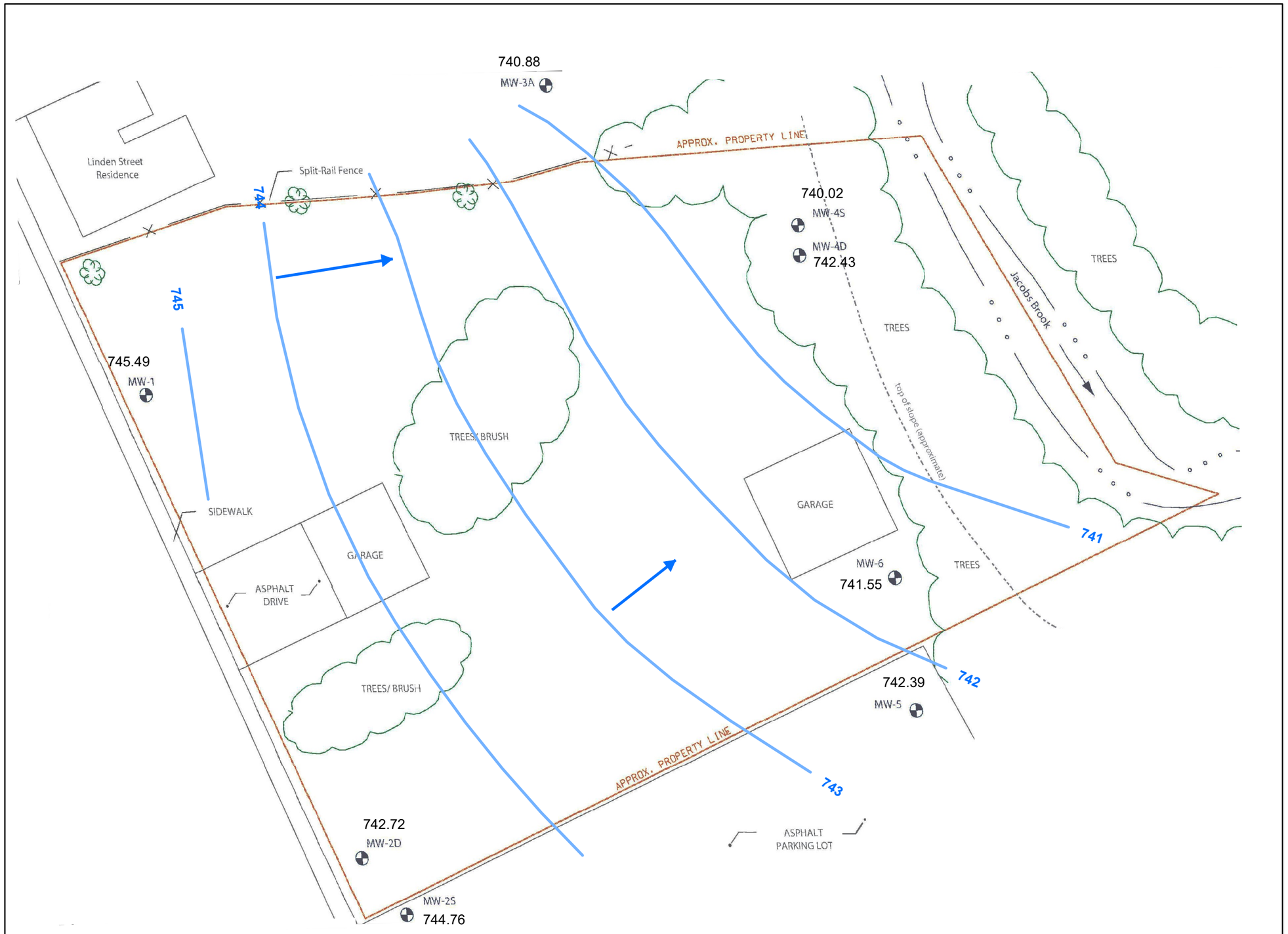
N

2,000 1,000 0 2,000
Feet

APRIL 2024

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 APRIL 28, 2023 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

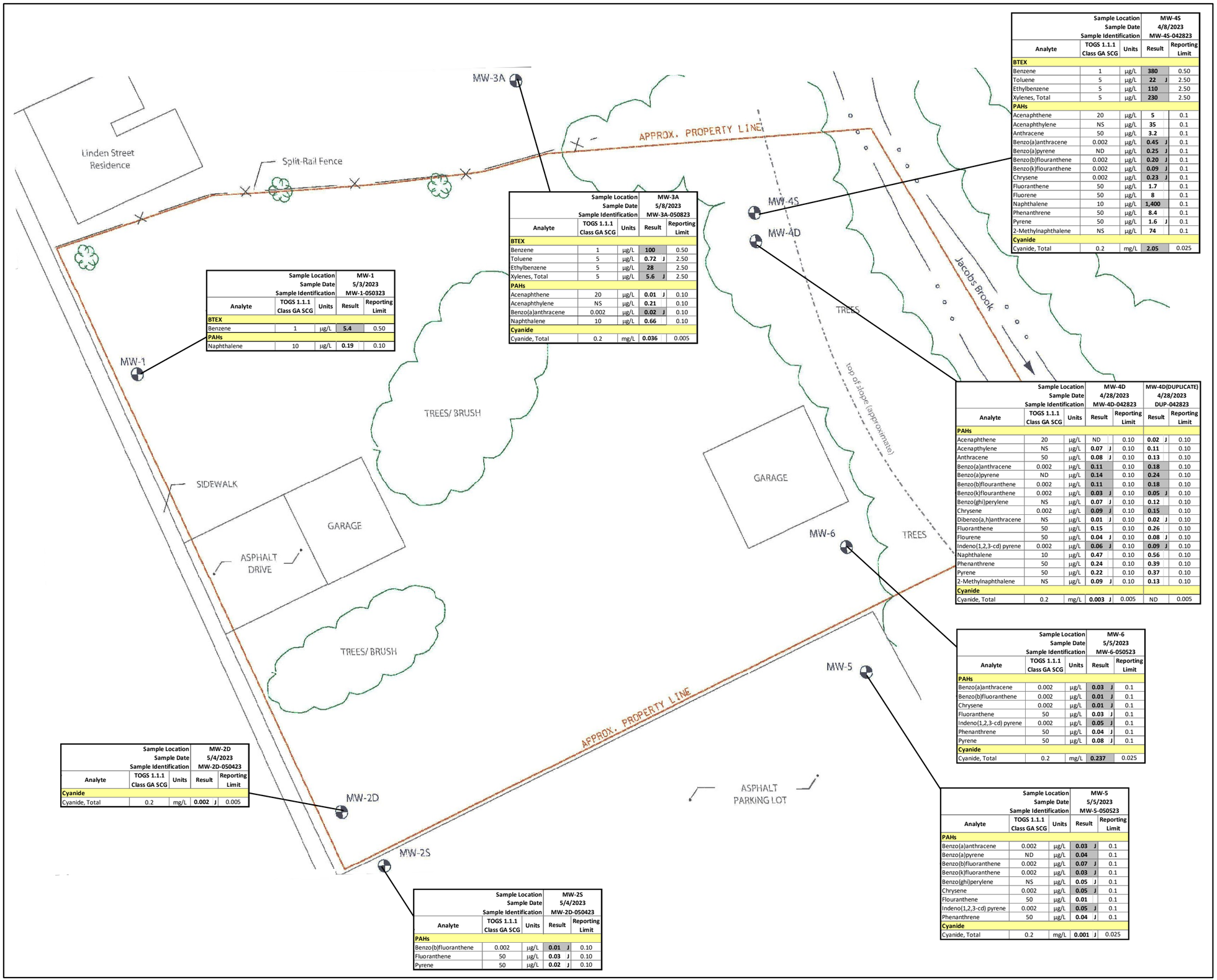
APRIL 2023
GROUNDWATER ELEVATION CONTOURS

0 12.5 25 50
Feet

APRIL 2024

NEU-VELLE LLC

FIGURE 3



Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-1	Sample Date: 5/3/2023	Sample Identification: MW-1-050323	
			Result		Reporting Limit	
BTEX						
Benzene	1	µg/L	**5.4**		0.50	
PAHs						
Naphthalene	10	µg/L	**0.19**		0.10	

Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-3A	Sample Date: 5/8/2023	Sample Identification: MW-3A-050823	
			Result		Reporting Limit	
BTEX						
Benzene	1	µg/L	**100**		0.50	
Toluene	5	µg/L	**0.72**	J	2.50	
Ethylbenzene	5	µg/L	**28**		2.50	
Xylenes, Total	5	µg/L	**5.6**	J	2.50	
PAHs						
Acenaphthene	20	µg/L	**0.01**	J	0.10	
Acenaphthylene	NS	µg/L	**0.21**		0.10	
Benzo(a)anthracene	0.002	µg/L	**0.02**	J	0.10	
Naphthalene	10	µg/L	**0.66**		0.10	
Cyanide						
Cyanide, Total	0.2	mg/L	**0.036**		0.005	

Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-4S	Sample Date: 4/8/2023	Sample Identification: MW-4S-042823	
			Result		Reporting Limit	
BTEX						
Benzene	1	µg/L	**380**		0.50	
Toluene	5	µg/L	**22**	J	2.50	
Ethylbenzene	5	µg/L	**110**		2.50	
Xylenes, Total	5	µg/L	**230**		2.50	
PAHs						
Acenaphthene	20	µg/L	**5**		0.1	
Acenaphthylene	NS	µg/L	**35**		0.1	
Anthracene	50	µg/L	**3.2**		0.1	
Benzo(a)anthracene	0.002	µg/L	**0.45**	J	0.1	
Benzo(a)pyrene	ND	µg/L	**0.25**	J	0.1	
Benzo(b)flouranthene	0.002	µg/L	**0.20**	J	0.1	
Benzo(k)flouranthene	0.002	µg/L	**0.09**	J	0.1	
Chrysene	0.002	µg/L	**0.23**	J	0.1	
Fluoranthene	50	µg/L	**1.7**		0.1	
Fluorene	50	µg/L	**8**		0.1	
Naphthalene	10	µg/L	**1,400**		0.1	
Phenanthrene	50	µg/L	**8.4**		0.1	
Pyrene	50	µg/L	**1.6**	J	0.1	
2-Methylnaphthalene	NS	µg/L	**74**		0.1	
Cyanide						
Cyanide, Total	0.2	mg/L	**2.05**		0.025	

Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-4D	Sample Date: 4/28/2023	Sample Identification: MW-4D-042823		Sample Location: MW-4D(DUPLICATE)	Sample Date: 4/28/2023	Sample Identification: DUP-042823	
			Result		Reporting Limit		Result		Reporting Limit	
PAHs										
Acenaphthene	20	µg/L	ND		0.10		**0.02**	J	0.10	
Acenapthylene	NS	µg/L	**0.07**	J	0.10		**0.11**		0.10	
Anthracene	50	µg/L	**0.08**	J	0.10		**0.13**		0.10	
Benzo(a)anthracene	0.002	µg/L	**0.11**		0.10		**0.18**		0.10	
Benzo(a)pyrene	ND	µg/L	**0.14**		0.10		**0.24**		0.10	
Benzo(b)flouranthene	0.002	µg/L	**0.11**		0.10		**0.18**		0.10	
Benzo(k)flouranthene	0.002	µg/L	**0.03**	J	0.10		**0.05**	J	0.10	
Benzo(ghi)perylene	NS	µg/L	**0.07**	J	0.10		**0.12**		0.10	
Chrysene	0.002	µg/L	**0.09**	J	0.10		**0.15**		0.10	
Dibenzo(a,h)anthracene	NS	µg/L	**0.01**	J	0.10		**0.02**	J	0.10	
Fluoranthene	50	µg/L	**0.15**		0.10		**0.26**		0.10	
Flourene	50	µg/L	**0.04**	J	0.10		**0.08**	J	0.10	
Indeno(1,2,3-cd) pyrene	0.002	µg/L	**0.06**	J	0.10		**0.09**	J	0.10	
Naphthalene	10	µg/L	**0.47**		0.10		**0.56**		0.10	
Phenanthrene	50	µg/L	**0.24**		0.10		**0.39**		0.10	
Pyrene	50	µg/L	**0.22**		0.10		**0.37**		0.10	
2-Methylnaphthalene	NS	µg/L	**0.09**	J	0.10		**0.13**		0.10	
Cyanide										
Cyanide, Total	0.2	mg/L	**0.003**	J	0.005		ND		0.005	

Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-6	Sample Date: 5/5/2023	Sample Identification: MW-6-050523	
			Result		Reporting Limit	
PAHs						
Benzo(a)anthracene	0.002	µg/L	**0.03**	J	0.1	
Benzo(b)fluoranthene	0.002	µg/L	**0.01**	J	0.1	
Chrysene	0.002	µg/L	**0.01**	J	0.1	
Fluoranthene	50	µg/L	**0.03**	J	0.1	
Indeno(1,2,3-cd) pyrene	0.002	µg/L	**0.05**	J	0.1	
Phenanthrene	50	µg/L	**0.04**	J	0.1	
Pyrene	50	µg/L	**0.08**	J	0.1	
Cyanide						
Cyanide, Total	0.2	mg/L	**0.237**		0.025	

Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-5	Sample Date: 5/5/2023	Sample Identification: MW-5-050523	
			Result		Reporting Limit	
PAHs						
Benzo(a)anthracene	0.002	µg/L	**0.03**	J	0.1	
Benzo(a)pyrene	ND	µg/L	**0.04**		0.1	
Benzo(b)fluoranthene	0.002	µg/L	**0.07**	J	0.1	
Benzo(k)fluoranthene	0.002	µg/L	**0.03**	J	0.1	
Benzo(ghi)perylene	NS	µg/L	**0.05**	J	0.1	
Chrysene	0.002	µg/L	**0.05**	J	0.1	
Flouranthene	50	µg/L	**0.01**		0.1	
Indeno(1,2,3-cd) pyrene	0.002	µg/L	**0.05**	J	0.1	
Phenanthrene	50	µg/L	**0.04**	J	0.1	
Cyanide						
Cyanide, Total	0.2	mg/L	**0.001**	J	0.025	

Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-2D	Sample Date: 5/4/2023	Sample Identification: MW-2D-050423	
			Result		Reporting Limit	
Cyanide						
Cyanide, Total	0.2	mg/L	**0.002**	J	0.005	

Analyte	TOGS 1.1.1 Class GA SCG	Units	Sample Location: MW-2S	Sample Date: 5/4/2023	Sample Identification: MW-2D-050423	
			Result		Reporting Limit	
PAHs						
Benzo(b)fluoranthene	0.002	µg/L	**0.01**	J	0.10	
Fluoranthene	50	µg/L	**0.03**	J	0.10	
Pyrene	50	µg/L	**0.02**	J	0.10	

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

SPRING 2023 ANALYTICAL DETECTIONS IN GROUNDWATER

0 12.5 25 50
Feet

APRIL 2024

NEU-VELLE LLC

Attachment 1

Groundwater Sampling Logs

NEU-VELLE LLC

NEU-VELLE, LLC

Low Flow Ground Water Sampling Log

Date	4/28/23	Personnel	Joe CW	Weather	Cloudy, 60°F
Site Name	NYSEG - Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-4D
Site Location		Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	40.4	ft.
Depth to Water *	11.9	ft.
Length of Water Column	28.5	ft.

* Measurements taken from

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

Start Purge Time: 10:55

Elapsed Time ( )	Depth To Water ( )	Temperature (°C)	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l) 4.07	Turbidity (NTU)	Flow Rate (ml/min).
11:00	12.8	10.6	9.26	0.270	94.3	~~87.3~~	18.6	150
05	13.5	10.5	8.21	0.304	109.2	1.26	23.1	150
10	14.6	10.5	8.53	0.266	102.6	3.32	24.4	150
15	17.2	10.4	8.64	0.248	104.5	4.04	26.5	150
20	19	10.4	8.62	0.256	103	3.85	22	150
25	19.9	10.4	8.67	0.254	97.8	3.95	35.9	150
30	23.2	10.4	8.67	0.257	95.1	3.93	19.0	150
35	25.1	10.4	8.67	0.258	91.9	4.00	15.8	150
40	26.7	10.4	8.64	0.261	89.4	3.82	15.8	150
45	28.6	10.4	8.64	0.262	83.7	3.71	12.7	150
50	30.3	10.4	8.61	0.266	77.8	3.53	11.3	150
55	31.2	10.5	8.01	0.347	-56.7	1.31	20.9	150
12:00	31.4	10.5	8.57	0.257	-28.3	3.65	15.2	150
05	31.7	10.5	8.70	0.264	-4	2.83	9.80	150
10	32.3	10.5	8.98	0.271	13.5	1.02	11.2	150
15	32.7	10.5	9.00	0.269	16.7	0.72	11.6	150
20	33	10.5	9.01	0.269	17	0.49	11.18	150
25	33.4	10.5	8.97	0.268	12.6	0.39	10.77	150
30	33.8	10.5	8.92	0.271	3.7	0.28	7.04	150
35	34.3	10.5	8.91	0.280	-13.9	0.35	5.72	150
40	34.6	10.5	8.80	0.293	-35	0.24	6.21	150
45	35.2	10.5	8.57	0.306	-53	0.24	7.44	150
50	35.3	10.5	8.32	0.318	-65	0.18	32.4	150

End Purge Time: —

Water sample:

Time collected: —

Total volume of purged water removed: —

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color:

Odor:

Sheen/Free Product:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			owflowlog		

NEU-VELLE, LLC

Low Flow Ground Water Sampling Log

Date: 4/20/23 | Personnel: JC CM | Weather: Cloudy 60°F.
Site Name: NYSEG - Penn Yan | Evacuation Method: Low Flow Bladder | Well #: MW-4D
Site Location: _____ | Sampling Method: Low Flow Bladder | Project #: _____

Well information:

Depth of Well * 40.4 ft.
Depth to Water * 11.7 ft.
Length of Water Column 28.5 ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing (3FL)
	(Other, Specify)

Start Purge Time: _____

Elapsed Time ( )	Depth To Water ( )	Temperature (°C)	pH	Conductivity (mS/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
12:55	35.8	10.5	8.18	0.323	-62.8	0.23	10.8	150
13:00	36.2	10.6	8.00	0.323	-70.2	0.29	14.9	150
13:05	36.9	10.5	7.98	0.333	-67	0.58	60.7	150
13:10	38.5	10.5	8.03	0.324	-56.8	0.82	16.3	150
13:15	39	10.6	7.90	0.322	-53	0.53	16.8	150
13:20	39	10.5	7.88	0.336	-64.8	0.37	16.6	150

End Purge Time: 13:20

Water sample:
Time collected: 13:25

Total volume of purged water removed: 21,000mL

Physical appearance at start		Physical appearance at sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

Turbidity increased through out sample collection

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

NEU-VELLE, LLC

Low Flow Ground Water Sampling Log

Date	4/28/23	Personnel	Joe C[illegible]	Weather	Cloudy, 60°F
Site Name	NYSEG-Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-4S
Site Location		Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well * 22.9 ft.

Depth to Water * 13 ft.

Length of Water Column 9.9 ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing (3SL)
	(Other, Specify)

Start Purge Time: 14:30

Elapsed Time ( )	Depth To Water ( )	Temperature (°C)	pH	Conductivity (mS/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
14:35	13.6	10.6	6.97	2.28	168.2	1.52	42.2	150
40	13.9	10.1	7.07	2.13	209.2	0.62	30.9	150
45	14.2	10.0	7.05	2.15	213.2	0.43	24.1	150
50	14.5	10.0	7.04	2.19	210.8	0.27	16	150
55	14.8	9.9	7.03	2.19	209.6	0.07	13.6	150
15:00	15.1	9.9	7.03	2.18	212.5	0.10	11.3	150
05	15.5	9.9	7.00	2.14	215.2	0.46	11.3	150
10	16.1	9.9	7.07	2.04	217.0	0.25	11.4	150
15	16.3	9.9	7.02	1.93	216.8	0.29	11.8	150
20	16.6	9.9	7.01	1.92	212.8	0.28	11.5	150
25	16.8	9.9	6.98	1.88	187.1	0.22	6	150
30	17.2	9.9	7.02	1.82	141.6	0.35	5.67	150
35	18	10	7.05	1.72	87.1	1.28	5	150
40	18.3	10	7.06	1.77	76.4	1.32	6.3	150
45	18.5	10	7.08	1.76	73.9	1.80	7	150

End Purge Time: 15:45

Water sample: 15:50

Time collected:

Total volume of purged water removed: 10,500 mL

Physical appearance at start

Color ~~Clear~~ Brown

Odor ~~None~~ Yes, MGP Odor

Sheen/Free Product None

Physical appearance at sampling

Color Clear

Odor Yes, MGP Odor

Sheen/Free Product None

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

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

Date	5/3/23	Personnel	Joe CJW	Weather	Rainy, 50°F
Site Name	NYEG-Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-1
Site Location	Penn Yan, NY	Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	13.9	ft.
Depth to Water *	9	ft.
Length of Water Column	4.9	ft.

* Measurements taken from

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

Start Purge Time: 15:05

Elapsed Time ( )	Depth To Water ( )	Temperature ( )	pH	Conductivity (µs/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
15:10	10.3	9.8	7.22	0.618	137.6	0.44	38.3	200
15	10.8	9.7	7.22	0.616	132.4	0.23	22	200
20	10.9	9.7	7.21	0.621	117.0	0.11	656	200
25	11	9.7	7.20	0.625	55.4	0.07	59	200
30	11.1	9.6	7.21	0.617	44.9	0.01	54	200
35	11.1	9.6	7.21	0.615	40	0.07	64	200
40	11.1	9.7	7.21	0.620	37.3	0.0	1718	200
45	11.1	9.6	7.21	0.620	25	0.0	1413	200
50	11.1	9.6	7.21	0.620	14.6	0.04	1459	200
55	11.1	9.5	7.22	0.607	17.8	0.03	61	200
16:00	11.1	9.5	7.21	0.602	21.2	0.0	33	200
05	11.1	9.5	7.20	0.600	22.4	0.0	56	200
10	11.1	9.6	7.20	0.596	22.7	0.0	638	200
15	11.1	9.5	7.21	0.600	21.9	0.0	46	200
20	11.1	9.5	7.21	0.598	21.4	0.0	102	200
25	11.1	9.5	7.22	0.590	20.3	0.0	94	200
30	11.1	9.5	7.21	0.585	21.4	0.0	99	200
35	11.1	9.5	7.21	0.582	22.4	0.0	87	200
40	11.1	9.5	7.20	0.586	21.4	0.0	949	200
45	11.1	9.5	7.22	0.583	21.5	0.0	705	200
50	11.1	9.5	7.22	0.575	21.2	0.0	970	200
~~17:05~~	11.1	9.5	7.22	0.582	21.3	0.0	57	200
17:00								

End Purge Time: 16:55

Water sample:

Time collected: 17:00

Total volume of purged water removed: 22,000mL

Due to turbidity flux, sampled @ next low level after high turbidity from 16:40-16:50

Physical appearance at start		Physical appearance at sampling	
Color	Brown	Color	Clear
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			owflowlog		

Low Flow Ground Water Sampling Log

U-VELLE, LLC

Date	5/4/23	Personnel	Joe C. W	Weather	Overcast, 45°F
Site Name	NYSEG - Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-21
Site Location	Penn Yan, NY	Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	38.2	ft.
Depth to Water *	11.5	ft.
Length of Water Column	26.7	ft.

* Measurements taken from

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

Start Purge Time: 10:40

Elapsed Time ( )	Depth To Water ( )	Temperature ( )	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
10:45	12.8	11.5	8.66	0.443	136.2	5.51	28.2	200
50	16.2	11.4	8.68	0.449	135.9	4.83	18.4	200
55	18.6	11.4	8.63	0.451	135	4.30	24.6	200
11:00	21.3	11.4	8.65	0.457	133	3.68	35.8	200
05	23.2	11.4	8.61	0.460	132	3.49	37.6	200
10	25.7	11.4	8.48	0.466	127.5	3.50	45.9	200
15	26.5	11.4	8.44	0.468	123	3.09	46.8	200
20	28.6	11.4	8.39	0.473	108.1	2.80	38.6	200
25	30.3	11.5	8.32	0.482	60.5	2.51	31.2	200
30	30.5	11.5	8.24	0.485	52.3	2.45	33	200
35	30.9	11.6	8.28	0.492	22.6	2.09	29.4	200
40	31.4	11.7	8.48	0.498	-31.9	0.67	27.8	200
45	31.7	11.7	8.50	0.498	-52.9	0.28	28	200
50	32.3	11.7	8.44	0.499	-70.6	0.24	26.6	200
55	32.6	11.8	8.23	0.508	-76	0.40	22.3	200
12:00	32.9	11.8	7.99	0.514	-74	0.36	13	200
05	33.3	11.8	7.90	0.519	-73.3	0.31	16.4	200
10	33.5	11.8	7.84	0.528	-73.1	0.32	18.2	200
15	33.7	11.7	7.78	0.534	-73.4	0.50	16.3	200
20	34	11.8	7.67	0.544	-69.5	0.30	11.33	200
25	34.2	11.8	7.59	0.549	-65.8	0.21	5.34	200
30	34.5	11.8	7.54	0.562	-65.2	0.11	21.4	200
35	34.6	11.8	7.45	0.623	-60.4	0.0	14.2	200
40	34.7	11.8	7.53	0.569	-64.1	0.0	16	200

End Purge Time: 12:40

Water sample:

Time collected: 12:45

Total volume of purged water removed: 23,000 mL

Physical appearance at start

Color	Clear
Odor	None
Sheen/Free Product	None

Physical appearance at sampling

Color	Clear
Odor	None
Sheen/Free Product	None

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			lowflowlog		

NEU-VELLE, LLC

Low Flow Ground Water Sampling Log

Date	5/4/23	Personnel	Joe C/W	Weather	Overcast 45°F
Site Name	NYSEG - Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-25
Site Location	Penn Yan, NY	Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	13.6	ft.
Depth to Water *	9	ft.
Length of Water Column	4.6	ft.

* Measurements taken from

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

Start Purge Time: 13:30

Elapsed Time ( )	Depth To Water ( )	Temperature ( )	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
13:35	9.4	9.9	7.29	1.29	113.5	4.86	31.8	200
40	9.5	9.7	7.25	1.35	102.6	5.25	11.9	200
45	9.6	9.7	7.23	1.34	109.2	4.54	6.08	200
50	9.6	9.7	7.23	1.33	112.8	4.28	8.03	200
55	9.6	9.6	7.21	1.32	118	4.09	4.86	200
14.00	9.6	9.7	7.21	1.30	121	4.06	4.14	200
05	9.6	9.7	7.20	1.28	123.4	3.87	5.74	200
10	9.6	9.6	7.20	1.28	126.5	3.77	4.95	200
15	9.6	9.6	7.19	1.27	129.5	3.63	5.66	200
20	9.6	9.6	7.20	1.27	131	3.53	4.97	200

End Purge Time: 14:20

Water sample:
Time collected: 14:25

Total volume of purged water removed: 9,000mL

Physical appearance at start		Physical appearance at sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			owflowlog		

NEU-VELLE, LLC

Low Flow Ground Water Sampling Log

Date	5/5/23	Personnel	Joe Carter	Weather	Cloudy, 65°F
Site Name	NYSEG - Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-6
Site Location	Penn Yan, NY	Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	39.9	ft.
Depth to Water *	10.3	ft.
Length of Water Column	29.4	ft.

* Measurements taken from

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

Start Purge Time: 12:35

Elapsed Time ( )	Depth To Water ( )	Temperature ( )	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
12:40	11.3	10.8	7.58	0.506	114.9	5.15	48.1	200
45	14.7	10.8	7.59	0.505	124.7	4.50	16.5	200
50	16.6	10.7	7.60	0.506	127.8	4.55	7.02	200
55	20.1	10.6	7.60	0.506	132	4.40	3.82	200
13:00	21.9	10.6	7.60	0.506	133.6	4.29	2.61	200
05	25.3	10.6	7.60	0.506	135.9	4.26	2.56	200
10	26.9	10.5	7.61	0.506	137.1	4.43	2.45	200
15	30.2	10.5	7.61	0.506	138.5	4.19	2.61	200
20	30.2	10.6	7.60	0.507	139.2	3.96	3.22	200
25	30.5	10.7	7.60	0.508	139.5	2.96	2.77	200
30	31.3	10.8	7.57	0.511	138.5	1.28	4.14	200
35	32	10.9	7.55	0.513	136.8	0.54	3.60	200
40	32.6	10.9	7.54	0.514	136.4	0.85	3.57	200
45	33.3	11	7.54	0.514	134.4	0.42	3.53	200
50	34	11	7.55	0.514	132.3	0.24	3.28	200
55	34.5	11	7.55	0.509	130.2	0.13	3.23	200
14:00	35.3	11	7.55	0.500	120.1	0.15	3.53	200
05	35.8	11.1	7.55	0.495	111.1	0.08	3.30	200
10	36	11.2	7.54	0.494	109.0	0.09	3.56	200
15	36.5	11.1	7.55	0.496	108.0	0.74	3.32	200
20	36.8	11.1	7.55	0.496	108.9	0.70	3.56	200
25	37.1	11.1	7.56	0.495	109.4	0.64	3.62	200
30	37.4	11.1	7.55	0.494	109.5	0.49	3.64	200

End Purge Time: 14:30

Water sample:

Time collected: 14:35

Total volume of purged water removed: 12,000 mL

Physical appearance at start

- Color: Clear
- Odor: None
- Sheen/Free Product: None

Physical appearance at sampling

- Color: Clear
- Odor: None
- Sheen/Free Product: None

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			owflowlog		

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

Date	5/5/23	Personnel	JoC	Weather	Cloudy, 65°F
Site Name	NJSEG-Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-5
Site Location	Penn Yan, NJ	Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	26.8 ft.	* Measurements taken from	
Depth to Water *	7.6 ft.	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 15:25

Elapsed Time ( )	Depth To Water ( )	Temperature ( )	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
15:30	7.8	11.7	7.18	0.83	-17.5	0.35	680	200
35	12.1	11.5	7.16	0.83	-9.9	0.05	75	200
40	13.7	11.4	7.16	0.83	-8.5	0.0	66	200
45	15.4	11.3	7.13	0.83	0.2	0.0	+	200
50	15.4	11.3	7.05	0.84	-23.1	0.03	67	200
55	15.4	11.2	7.05	0.85	-7	0.29	29	200
16:00	15.4	11.2	7.21	0.87	3.7	2.65	14.2	200
05	15.7	11.1	7.34	0.88	13.1	3.00	11.2	200
10	16.3	11.3	7.40	0.89	23.2	3.51	10.18	200
15	17	11.2	7.41	0.88	5.6	1.26	11.2	200
20	17.4	11.3	7.37	0.86	-13	0.65	10.16	200
25	17.8	11.4	7.38	0.85	-17.2	0.35	11.4	200
30	18.6	11.4	7.46	0.83	-20.5	1.10	10.25	200
35	19	11.3	7.46	0.82	-18.6	0.22	11.8	200
40	19.3	11.3	7.46	0.82	-12	0.13	10.3	200
45	19.9	11.3	7.44	0.81	-4.9	0.13	11.6	200
50	20.7	11.3	7.45	0.79	-1	0.14	10.63	200
55	21.4	11.4	7.38	0.80	-32.8	0.07	11.22	200
17:00	21.8	11.2	7.34	0.80	-42.3	0.13	10.2	200
05	22.1	11.2	7.36	0.80	-44.3	0.30	11.7	200
10	22.7	11.2	7.38	0.81	-39	0.23	10.73	200
15	23.1	11.2	7.35	0.80	-28.9	0.23	11.63	200
20	23.2	11.2	7.39	0.79	-26.1	0.25	10.76	200

End Purge Time: 17:20

Water sample:

Time collected: 17:25

Total volume of purged water removed: 22,000 mL

Physical appearance at start		Physical appearance at sampling	
Color	Light Brown	Color	Clear
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			owflowlog		

NEU-VELLE, LLC

Low Flow Ground Water Sampling Log

Date	5/8/23	Personnel	Joe C	Weather	Sunny, 65°F
Site Name	NYSEG-Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-3A
Site Location	Penn Yan, NY	Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	23.2	ft.	
Depth to Water *	11.6	ft.	
Length of Water Column	11.6	ft.	

* Measurements taken from

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

Start Purge Time: 10:55

Elapsed Time ( )	Depth To Water ( )	Temperature ( )	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
10:00	12.0	10.5	7.34	0.79	105.7	0.54	+	200
05	12.9	10.7	7.34	0.73	100	0.10	+	200
10	12.9	10.6	7.38	0.684	50.1	0.00	+	200
15	12.9	10.5	7.39	0.77	18.5	0.00	+	200
20	12.9	10.6	7.40	0.78	3.5	0.00	+	200
25	12.9	10.7	7.41	0.681	-14.2	0.00	+	200
30	12.9	10.6	7.42	0.624	-22	0.00	+	200
35	12.9	10.7	7.42	0.573	-29.6	0.00	+	200
40	12.9	10.6	7.38	0.557	-26	0.00	+	200
45	12.9	10.9	7.41	0.72	-37.4	0.00	+	200
50	12.9	10.7	7.43	0.69	-36.4	0.00	+	200
55	12.9	10.6	7.41	0.77	-30.8	0.00	+	200
11:00	12.9	10.7	7.42	0.73	-30.6	0.05	2244	200
05	12.9	10.6	7.40	0.681	-27.2	0.00	2369	200
10	12.9	10.7	7.41	0.80	-38.9	0.00	+	200
15	12.9	10.6	7.43	0.83	-40	0.00	+	200
20	12.9	10.6	7.46	0.81	-28.2	0.00	+	200
25	12.9	10.7	7.46	0.78	-38.1	0.00	+	200
30	12.9	10.7	7.46	0.71	-42.9	0.00	+	200
35	12.9	10.7	7.49	0.671	-46	0.00	+	200
40	12.9	10.7	7.46	0.623	-49.9	0.00	+	200
45	12.9	10.7	7.47	0.604	-52	0.00	3175	200
50	12.9	10.8	7.50	0.585	-54.6	0.00	2858	200

End Purge Time: —

Water sample:

Time collected: —

Total volume of purged water removed: —

Physical appearance at start

Color: Grey

Odor: Nil

Sheen/Free Product: Nil

Physical appearance at sampling

Color:

Odor:

Sheen/Free Product:

Constant high turbidity, no evidence of improving level throughout purge

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			owflowlog		

NEU-VELLE, LLC

Low Flow Ground Water Sampling Log

Date	5/8/23	Personnel	Joe C	Weather	Sunny, 65°F
Site Name	NYSEG - Penn Yan	Evacuation Method	Low Flow Bladder	Well #	MW-3A
Site Location	Penn Yan, NY	Sampling Method	Low Flow Bladder	Project #	

Well information:

Depth of Well *	23.2	ft.
Depth to Water *	11.6	ft.
Length of Water Column	11.6	ft.

* Measurements taken from

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

Start Purge Time: _____

Elapsed Time ( )	Depth To Water ( )	Temperature ( )	pH	Conductivity ( )	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
12:55	12.9	11.3	7.49	0.577	-55	0.6	1752	200
13:00	12.9	11.2	7.50	0.570	-57.1	0.0	1776	200
05	12.9	11.0	7.51	0.569	-57.3	0.0	1782	200
10	12.9	10.9	7.51	0.568	-57.9	0.0	1727	200
15	12.9	10.9	7.51	0.565	-59.1	0.0	1631	200
20	12.9	11.2	7.52	0.575	-60.2	0.0	1516	200
25	12.9	11.3	7.52	0.571	-61.2	0.0	1438	200
30	12.9	11.4	7.53	0.567	-62.2	0.0	1369	200

End Purge Time: 13:30

Water sample:
Time collected: 13:35

Total volume of purged water removed: 30,000mL

Physical appearance at start

Color	Grey
Odor	None
Sheen/Free Product	None

Physical appearance at sampling

Color	Grey
Odor	None
Sheen/Free Product	None

Sampled @ high turbidity

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
			owflowlog		

Exhibit A

Groundwater Laboratory Reports and Chain of Custody Forms

NEU-VELLE LLC

ANALYTICAL REPORT

Lab Number:	L2324157
Client:	NEU-VELLE Inc 10 Jones Avenue Rochester, NY 14608
ATTN:	Logan Reid
Phone:	(585) 478-3167
Project Name:	PENN YANN JACKSON ST FRMR MGP
Project Number:	2023080
Report Date:	05/18/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080

Lab Number: L2324157
Report Date: 05/18/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2324157-01	MW-4D-042823	WATER	PENN YANN , NY	04/28/23 13:25	05/03/23
L2324157-02	MW-4S-042823	WATER	PENN YANN , NY	04/28/23 13:50	05/03/23
L2324157-03	DUP-042823	WATER	PENN YANN , NY	04/28/23 16:20	05/03/23
L2324157-04	TRIP BLANK	WATER	PENN YANN , NY	04/28/23 00:00	05/03/23

Project Name:	PENN YANN JACKSON ST FRMR MGP	**Lab Number:**	L2324157
Project Number:	2023080	**Report Date:**	05/18/23

Case Narrative

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

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

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

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

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

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

Project Name:	PENN YANN JACKSON ST FRMR MGP	**Lab Number:**	L2324157
Project Number:	2023080	**Report Date:**	05/18/23

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2324157-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

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

Authorized Signature: Ashaley Moynihan

Title: Technical Director/Representative Date: 05/18/23

ORGANICS

VOLATILES

Project Name: PENN YANN JACKSON ST FRMR MGP
Lab Number: L2324157
Project Number: 2023080
Report Date: 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-01
Client ID: MW-4D-042823
Sample Location: PENN YANN , NY

Date Collected: 04/28/23 13:25
Date Received: 05/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/10/23 00:04
Analyst: MKS

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	113		70-130

Project Name: PENN YANN JACKSON ST FRMR MGP **Lab Number:** L2324157

Project Number: 2023080 **Report Date:** 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-02 D
Client ID: MW-4S-042823
Sample Location: PENN YANN , NY

Date Collected: 04/28/23 13:50
Date Received: 05/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/09/23 23:43
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	380		ug/l	5.0	1.6	10
Toluene	22	J	ug/l	25	7.0	10
Ethylbenzene	110		ug/l	25	7.0	10
p/m-Xylene	130		ug/l	25	7.0	10
o-Xylene	100		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: PENN YANN JACKSON ST FRMR MGP **Lab Number:** L2324157

Project Number: 2023080 **Report Date:** 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-03
Client ID: DUP-042823
Sample Location: PENN YANN , NY

Date Collected: 04/28/23 16:20
Date Received: 05/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/09/23 23:22
Analyst: MKS

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	114		70-130

Project Name: PENN YANN JACKSON ST FRMR MGP **Lab Number:** L2324157

Project Number: 2023080 **Report Date:** 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-04
Client ID: TRIP BLANK
Sample Location: PENN YANN , NY

Date Collected: 04/28/23 00:00
Date Received: 05/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/09/23 23:01
Analyst: MKS

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	112		70-130

Project Name: PENN YANN JACKSON ST FRMR MGP **Lab Number:** L2324157

Project Number: 2023080 **Report Date:** 05/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/09/23 21:38
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1777208-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP

Project Number: 2023080

Lab Number: L2324157

Report Date: 05/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1777208-3 WG1777208-4								
Benzene	87		87		70-130	0		20
Toluene	88		85		70-130	3		20
Ethylbenzene	87		85		70-130	2		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		85		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		97		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1777208-6 WG1777208-7 QC Sample: L2324157-01 Client ID: MW-4D-042823												
Benzene	ND	10	9.5	95		9.5	95		70-130	0		20
Toluene	ND	10	9.2	92		9.4	94		70-130	2		20
Ethylbenzene	ND	10	9.3	93		9.5	95		70-130	2		20
p/m-Xylene	ND	20	19	95		20	100		70-130	5		20
o-Xylene	ND	20	19	95		20	100		70-130	5		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
4-Bromofluorobenzene	95		101		70-130
Dibromofluoromethane	101		100		70-130
Toluene-d8	98		101		70-130

SEMIVOLATILES

Project Name: PENN YANN JACKSON ST FRMR MGP
Lab Number: L2324157
Project Number: 2023080
Report Date: 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-01
Client ID: MW-4D-042823
Sample Location: PENN YANN , NY

Date Collected: 04/28/23 13:25
Date Received: 05/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/08/23 20:47
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/05/23 09:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.15		ug/l	0.10	0.02	1
Naphthalene	0.47		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.11		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.14		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.11		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.09	J	ug/l	0.10	0.01	1
Acenaphthylene	0.07	J	ug/l	0.10	0.01	1
Anthracene	0.08	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.07	J	ug/l	0.10	0.01	1
Fluorene	0.04	J	ug/l	0.10	0.01	1
Phenanthrene	0.24		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.01	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.06	J	ug/l	0.10	0.01	1
Pyrene	0.22		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.09	J	ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	71		15-120
4-Terphenyl-d14	61		41-149

Project Name: PENN YANN JACKSON ST FRMR MGP
Lab Number: L2324157
Project Number: 2023080
Report Date: 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-02 D2
Client ID: MW-4S-042823
Sample Location: PENN YANN , NY

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/17/23 17:06
Analyst: RP

Date Collected: 04/28/23 13:50
Date Received: 05/03/23
Field Prep: Not Specified

Extraction Method: EPA 3510C
Extraction Date: 05/05/23 09:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	1400		ug/l	5.0	2.4	50

Project Name: PENN YANN JACKSON ST FRMR MGP **Lab Number:** L2324157

Project Number: 2023080 **Report Date:** 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-02 D
Client ID: MW-4S-042823
Sample Location: PENN YANN , NY

Date Collected: 04/28/23 13:50
Date Received: 05/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/17/23 16:40
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/05/23 09:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	5.0		ug/l	1.0	0.14	10
2-Chloronaphthalene	ND		ug/l	2.0	0.18	10
Fluoranthene	1.7		ug/l	1.0	0.20	10
Naphthalene	1300	E	ug/l	1.0	0.49	10
Benzo(a)anthracene	0.45	J	ug/l	1.0	0.20	10
Benzo(a)pyrene	0.25	J	ug/l	1.0	0.15	10
Benzo(b)fluoranthene	0.20	J	ug/l	1.0	0.12	10
Benzo(k)fluoranthene	0.09	J	ug/l	1.0	0.09	10
Chrysene	0.23	J	ug/l	1.0	0.12	10
Acenaphthylene	35		ug/l	1.0	0.12	10
Anthracene	3.2		ug/l	1.0	0.14	10
Benzo(ghi)perylene	ND		ug/l	1.0	0.14	10
Fluorene	8.0		ug/l	1.0	0.14	10
Phenanthrene	8.4		ug/l	1.0	0.23	10
Dibenzo(a,h)anthracene	ND		ug/l	1.0	0.13	10
Indeno(1,2,3-cd)pyrene	ND		ug/l	1.0	0.12	10
Pyrene	1.6		ug/l	1.0	0.19	10
2-Methylnaphthalene	74		ug/l	1.0	0.22	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	81		15-120
4-Terphenyl-d14	84		41-149

Project Name: PENN YANN JACKSON ST FRMR MGP
Lab Number: L2324157
Project Number: 2023080
Report Date: 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-03
Client ID: DUP-042823
Sample Location: PENN YANN , NY

Date Collected: 04/28/23 16:20
Date Received: 05/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/08/23 20:31
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/05/23 09:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.26		ug/l	0.10	0.02	1
Naphthalene	0.56		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.18		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.24		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.18		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Chrysene	0.15		ug/l	0.10	0.01	1
Acenaphthylene	0.11		ug/l	0.10	0.01	1
Anthracene	0.13		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.12		ug/l	0.10	0.01	1
Fluorene	0.08	J	ug/l	0.10	0.01	1
Phenanthrene	0.39		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.09	J	ug/l	0.10	0.01	1
Pyrene	0.37		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.13		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	77		15-120
4-Terphenyl-d14	58		41-149

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/08/23 19:42
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/05/23 09:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1775194-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	0.05	J	ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.02	J	ug/l	0.10	0.01
Phenanthrene	0.04	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	80		15-120
4-Terphenyl-d14	76		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP

Project Number: 2023080

Lab Number: L2324157

Report Date: 05/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1775194-2 WG1775194-3								
Acenaphthene	70		65		40-140	7		40
2-Chloronaphthalene	69		65		40-140	6		40
Fluoranthene	77		70		40-140	10		40
Naphthalene	65		62		40-140	5		40
Benzo(a)anthracene	86		80		40-140	7		40
Benzo(a)pyrene	87		81		40-140	7		40
Benzo(b)fluoranthene	82		77		40-140	6		40
Benzo(k)fluoranthene	85		78		40-140	9		40
Chrysene	78		71		40-140	9		40
Acenaphthylene	78		74		40-140	5		40
Anthracene	77		71		40-140	8		40
Benzo(ghi)perylene	76		72		40-140	5		40
Fluorene	75		70		40-140	7		40
Phenanthrene	70		65		40-140	7		40
Dibenzo(a,h)anthracene	74		70		40-140	6		40
Indeno(1,2,3-cd)pyrene	76		71		40-140	7		40
Pyrene	75		68		40-140	10		40
2-Methylnaphthalene	73		69		40-140	6		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP

Project Number: 2023080

Lab Number: L2324157

Report Date: 05/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1775194-2 WG1775194-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	89		87		23-120
2-Fluorobiphenyl	70		66		15-120
4-Terphenyl-d14	69		63		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Client ID: MW-4D-042823	Associated sample(s): 01-03		QC Batch ID: WG1775194-4			WG1775194-5			QC Sample: L2324157-01			
Acenaphthene	ND	18.2	14	77		15	83		40-140	7		40
2-Chloronaphthalene	ND	18.2	13	72		14	77		40-140	0		40
Fluoranthene	0.15	18.2	17	93		17	93		40-140	13		40
Naphthalene	0.47	18.2	14	74		15	80		40-140	7		40
Benzo(a)anthracene	0.11	18.2	15	82		18	98		40-140	25		40
Benzo(a)pyrene	0.14	18.2	12	65		15	82		40-140	31		40
Benzo(b)fluoranthene	0.11	18.2	12	65		13	71		40-140	17		40
Benzo(k)fluoranthene	0.03J	18.2	11	61		13	72		40-140	17		40
Chrysene	0.09J	18.2	14	77		16	88		40-140	21		40
Acenaphthylene	0.07J	18.2	16	88		18	99		40-140	18		40
Anthracene	0.08J	18.2	16	88		17	94		40-140	13		40
Benzo(ghi)perylene	0.07J	18.2	6.4	**35**	Q	6.8	**37**	Q	40-140	29		40
Fluorene	0.04J	18.2	15	83		16	88		40-140	13		40
Phenanthrene	0.24	18.2	15	81		16	87		40-140	13		40
Dibenzo(a,h)anthracene	0.01J	18.2	7.0	**39**	Q	7.7	42		40-140	35		40
Indeno(1,2,3-cd)pyrene	0.06J	18.2	7.0	**39**	Q	7.6	42		40-140	39		40
Pyrene	0.22	18.2	16	87		17	92		40-140	13		40
2-Methylnaphthalene	0.09J	18.2	15	83		16	88		40-140	13		40

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2-Fluorobiphenyl	79		85		15-120
4-Terphenyl-d14	84		90		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP

Project Number: 2023080

Lab Number: L2324157

Report Date: 05/18/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1775194-4 WG1775194-5 QC Sample: L2324157-01 Client ID: MW-4D-042823												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		104		23-120

INORGANICS
&
MISCELLANEOUS

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-01
Client ID: MW-4D-042823
Sample Location: PENN YANN , NY
Sample Depth:
Matrix: Water

Date Collected: 04/28/23 13:25
Date Received: 05/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	05/08/23 03:00	05/08/23 18:24	1,9010C/9012B	JER

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-02
Client ID: MW-4S-042823
Sample Location: PENN YANN , NY
Sample Depth:
Matrix: Water
Date Collected: 04/28/23 13:50
Date Received: 05/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	2.05		mg/l	0.025	0.009	5	05/08/23 03:00	05/08/23 18:51	1,9010C/9012B	JER

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

SAMPLE RESULTS

Lab ID: L2324157-03
Client ID: DUP-042823
Sample Location: PENN YANN , NY
Sample Depth:
Matrix: Water

Date Collected: 04/28/23 16:20
Date Received: 05/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/09/23 03:00	05/10/23 13:44	1,9010C/9012B	JER

Project Name: PENN YANN JACKSON ST FRMR MGF
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1775958-1										
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	05/08/23 03:00	05/08/23 18:07	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1776444-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/09/23 03:00	05/10/23 13:36	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP

Project Number: 2023080

Lab Number: L2324157

Report Date: 05/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1775958-2 WG1775958-3								
Cyanide, Total	104		98		85-115	6		20
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1776444-2 WG1776444-3								
Cyanide, Total	91		96		85-115	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080
Lab Number: L2324157
Report Date: 05/18/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1775958-4 WG1775958-5 QC Sample: L2324157-01 Client ID: MW-4D-042823												
Cyanide, Total	0.003J	0.2	0.222	111		0.219	110		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1776444-4 WG1776444-5 QC Sample: L2324970-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.210	105		0.210	105		80-120	0		20

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080

Lab Number: L2324157
Report Date: 05/18/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2324157-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01A1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01A2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01B1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01B2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01C1	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01C2	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-01D	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2324157-01D1	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2324157-01D2	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2324157-01E	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-01E1	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-01E2	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-01F	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-01F1	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-01F2	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-02C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-02D	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2324157-02E	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: PENN YANN JACKSON ST FRMR MGP
Project Number: 2023080

Lab Number: L2324157
Report Date: 05/18/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2324157-02F	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-03C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-03D	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2324157-03E	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-03F	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324157-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2324157-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name:	PENN YANN JACKSON ST FRMR MGP	**Lab Number:**	L2324157
Project Number:	2023080	**Report Date:**	05/18/23

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YANN JACKSON ST FRMR MGP	**Lab Number:**	L2324157
Project Number:	2023080	**Report Date:**	05/18/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YANN JACKSON ST FRMR MGP	**Lab Number:**	L2324157
Project Number:	2023080	**Report Date:**	05/18/23

Data Qualifiers

Identified Compounds (TICs).

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YANN JACKSON ST FRMR MGP	**Lab Number:**	L2324157
Project Number:	2023080	**Report Date:**	05/18/23

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

ALPHA

NEW YORK CHAIN OF CUSTODY

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

Page of

Date Rec'd in Lab: 5/4/23

ALPHA Job #: L2324157

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

Project Information
Project Name: Penn Yann Jackson Street Fmr MGP
Project Location: Penn Yann, NY
Project #: 2023080
(Use Project name as Project #) ☐
Project Manager: Logan Reid
ALPHAQuote #:

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

Client Information
Client: Newvelle LLC
Address: 10 Jobes Ave, Rochester NY 14608
Phone: 585-478-3167
Fax:
Email: lreid@new-velle.com

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

Billing Information
☐ Same as Client Info
PO #

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

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Sampled 4/28/23, turned in day 4 of 7 day hold

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260-BTEX	NYTCL-PAHSIM-LVI	TCN						Sample Specific Comments	Total Bottles
24157-01	MW 4D-042823	4/28/23	13:25	GW	JC	x	x	x							
↓	MW 4D-MS/DS-042823	4/28/23	13:35	GW	JC	x	x	x							
02	MW 45-042823	4/28/23	15:50	GW	JC	x	x	x							
03	Dupe-042823	4/28/23	16:20	GW	JC	x	x	x							
04	Trip Blank	xx	xx	xx	xx	x									

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

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

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

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/3/23 @ 10:30	[signature] Sen Sast	5/3/23 1300
[signature] Sen Sast	5/3/23 1300	[signature] Sen Sast	5/3/23 1300
[signature] Sen Sast	5/3/23 1300	[signature]	05/04/23 0045

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

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

ANALYTICAL REPORT

Lab Number:	L2324872
Client:	NEU-VELLE Inc 10 Jones Avenue Rochester, NY 14608
ATTN:	Logan Reid
Phone:	(585) 478-3167
Project Name:	PENN YAN FORMER MGP SITE
Project Number:	2023080
Report Date:	05/19/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080

Lab Number: L2324872
Report Date: 05/19/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2324872-01	MW-1-050323	WATER	PENN YAN, NY	05/03/23 17:00	05/05/23
L2324872-02	MW-2D-050423	WATER	PENN YAN, NY	05/04/23 12:45	05/05/23
L2324872-03	MW-2S-050423	WATER	PENN YAN, NY	05/04/23 14:25	05/05/23
L2324872-04	EQUIPMENT BLANK	WATER	PENN YAN, NY	05/04/23 13:02	05/05/23
L2324872-05	TRIP BLANK	WATER	PENN YAN, NY	05/05/23 09:00	05/05/23

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2324872
Project Number:	2023080	**Report Date:**	05/19/23

Case Narrative

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

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

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

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

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

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

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2324872
Project Number:	2023080	**Report Date:**	05/19/23

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 05/19/23

ORGANICS

VOLATILES

Project Name: PENN YAN FORMER MGP SITE **Lab Number:** L2324872

Project Number: 2023080 **Report Date:** 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-01
Client ID: MW-1-050323
Sample Location: PENN YAN, NY

Date Collected: 05/03/23 17:00
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/15/23 11:43
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	5.4		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-02
Client ID: MW-2D-050423
Sample Location: PENN YAN, NY

Date Collected: 05/04/23 12:45
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/15/23 12:04
Analyst: MJV

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: PENN YAN FORMER MGP SITE **Lab Number:** L2324872

Project Number: 2023080 **Report Date:** 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-03
Client ID: MW-2S-050423
Sample Location: PENN YAN, NY

Date Collected: 05/04/23 14:25
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/15/23 12:26
Analyst: MJV

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	107		70-130

Project Name: PENN YAN FORMER MGP SITE **Lab Number:** L2324872

Project Number: 2023080 **Report Date:** 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-04
Client ID: EQUIPMENT BLANK
Sample Location: PENN YAN, NY

Date Collected: 05/04/23 13:02
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/15/23 12:48
Analyst: MJV

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

Project Name: PENN YAN FORMER MGP SITE **Lab Number:** L2324872

Project Number: 2023080 **Report Date:** 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-05
Client ID: TRIP BLANK
Sample Location: PENN YAN, NY

Date Collected: 05/05/23 09:00
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/15/23 13:10
Analyst: MJV

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: PENN YAN FORMER MGP SITE **Lab Number:** L2324872

Project Number: 2023080 **Report Date:** 05/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/15/23 05:36
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1779333-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE

Project Number: 2023080

Lab Number: L2324872

Report Date: 05/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1779333-3 WG1779333-4								
Benzene	99		100		70-130	1		20
Toluene	93		99		70-130	6		20
Ethylbenzene	96		97		70-130	1		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	95		95		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		108		70-130
Toluene-d8	99		102		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	100		98		70-130

SEMIVOLATILES

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-01
Client ID: MW-1-050323
Sample Location: PENN YAN, NY

Date Collected: 05/03/23 17:00
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/10/23 17:11
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/09/23 07:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	0.19		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		15-120
4-Terphenyl-d14	77		41-149

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-02
Client ID: MW-2D-050423
Sample Location: PENN YAN, NY

Date Collected: 05/04/23 12:45
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/11/23 18:33
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/10/23 08:42

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		15-120
4-Terphenyl-d14	76		41-149

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-03
Client ID: MW-2S-050423
Sample Location: PENN YAN, NY

Date Collected: 05/04/23 14:25
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/11/23 18:50
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/10/23 08:42

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	69		15-120
4-Terphenyl-d14	79		41-149

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-04
Client ID: EQUIPMENT BLANK
Sample Location: PENN YAN, NY

Date Collected: 05/04/23 13:02
Date Received: 05/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/11/23 19:06
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/10/23 08:42

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	74		15-120
4-Terphenyl-d14	87		41-149

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/10/23 16:55
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/09/23 07:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1776530-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	69		15-120
4-Terphenyl-d14	75		41-149

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/11/23 18:17
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/10/23 08:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02-04 Batch: WG1777123-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	68		15-120
4-Terphenyl-d14	76		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1776530-2 WG1776530-3								
Acenaphthene	69		66		40-140	4		40
2-Chloronaphthalene	70		68		40-140	3		40
Fluoranthene	76		70		40-140	8		40
Naphthalene	64		62		40-140	3		40
Benzo(a)anthracene	76		72		40-140	5		40
Benzo(a)pyrene	78		75		40-140	4		40
Benzo(b)fluoranthene	72		70		40-140	3		40
Benzo(k)fluoranthene	80		78		40-140	3		40
Chrysene	72		67		40-140	7		40
Acenaphthylene	76		72		40-140	5		40
Anthracene	74		70		40-140	6		40
Benzo(ghi)perylene	70		68		40-140	3		40
Fluorene	74		71		40-140	4		40
Phenanthrene	70		65		40-140	7		40
Dibenzo(a,h)anthracene	73		70		40-140	4		40
Indeno(1,2,3-cd)pyrene	67		64		40-140	5		40
Pyrene	76		71		40-140	7		40
2-Methylnaphthalene	69		67		40-140	3		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1776530-2 WG1776530-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	75		76		23-120
2-Fluorobiphenyl	69		66		15-120
4-Terphenyl-d14	73		70		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080

Lab Number: L2324872
Report Date: 05/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-04 Batch: WG1777123-2 WG1777123-3								
Acenaphthene	70		69		40-140	1		40
2-Chloronaphthalene	76		74		40-140	3		40
Fluoranthene	78		77		40-140	1		40
Naphthalene	68		66		40-140	3		40
Benzo(a)anthracene	76		77		40-140	1		40
Benzo(a)pyrene	78		77		40-140	1		40
Benzo(b)fluoranthene	75		75		40-140	0		40
Benzo(k)fluoranthene	76		75		40-140	1		40
Chrysene	72		70		40-140	3		40
Acenaphthylene	81		81		40-140	0		40
Anthracene	72		71		40-140	1		40
Benzo(ghi)perylene	72		72		40-140	0		40
Fluorene	76		75		40-140	1		40
Phenanthrene	67		66		40-140	2		40
Dibenzo(a,h)anthracene	73		73		40-140	0		40
Indeno(1,2,3-cd)pyrene	69		68		40-140	1		40
Pyrene	79		76		40-140	4		40
2-Methylnaphthalene	75		72		40-140	4		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-04 Batch: WG1777123-2 WG1777123-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	80		78		23-120
2-Fluorobiphenyl	72		71		15-120
4-Terphenyl-d14	77		77		41-149

INORGANICS
&
MISCELLANEOUS

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-01
Client ID: MW-1-050323
Sample Location: PENN YAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/03/23 17:00
Date Received: 05/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/13/23 13:00	05/15/23 15:39	1,9010C/9012B	JER

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-02
Client ID: MW-2D-050423
Sample Location: PENN YAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/04/23 12:45
Date Received: 05/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 13:01	1,9010C/9012B	JER

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-03
Client ID: MW-2S-050423
Sample Location: PENN YAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/04/23 14:25
Date Received: 05/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 13:02	1,9010C/9012B	JER

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

SAMPLE RESULTS

Lab ID: L2324872-04
Client ID: EQUIPMENT BLANK
Sample Location: PENN YAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/04/23 13:02
Date Received: 05/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 13:03	1,9010C/9012B	JER

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2324872
Report Date: 05/19/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1778604-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/13/23 13:00	05/15/23 15:29	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG1778857-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 12:53	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE

Project Number: 2023080

Lab Number: L2324872

Report Date: 05/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1778604-2 WG1778604-3								
Cyanide, Total	99		100		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1778857-2 WG1778857-3								
Cyanide, Total	90		96		85-115	6		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080

Lab Number: L2324872
Report Date: 05/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1778604-4 WG1778604-5 QC Sample: L2324260-03 Client ID: MS Sample												
Cyanide, Total	ND	0.2	ND	**0**	Q	0.008	**5**	Q	80-120	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1778857-4 WG1778857-5 QC Sample: L2325061-01 Client ID: MS Sample												
Cyanide, Total	0.001J	0.2	0.210	105		0.208	104		80-120	1		20

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080

Lab Number: L2324872
Report Date: 05/19/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2324872-01A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-01B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-01C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-01D	Plastic 250ml NaOH preserved	A	>12	>12	3.9	Y	Absent		TCN-9010(14)
L2324872-01E	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324872-01F	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324872-02A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-02B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-02C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-02D	Plastic 250ml NaOH preserved	A	>12	>12	3.9	Y	Absent		TCN-9010(14)
L2324872-02E	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324872-02F	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324872-03A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-03B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-03C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-03D	Plastic 250ml NaOH preserved	A	>12	>12	3.9	Y	Absent		TCN-9010(14)
L2324872-03E	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324872-03F	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324872-04A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-04B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-04C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-04D	Plastic 250ml NaOH preserved	A	>12	>12	3.9	Y	Absent		TCN-9010(14)
L2324872-04E	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080

Lab Number: L2324872
Report Date: 05/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2324872-04F	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2324872-05A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)
L2324872-05B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2324872
Project Number:	2023080	**Report Date:**	05/19/23

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2324872
Project Number:	2023080	**Report Date:**	05/19/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2324872
Project Number:	2023080	**Report Date:**	05/19/23

Data Qualifiers

Identified Compounds (TICs).

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2324872
Project Number:	2023080	**Report Date:**	05/19/23

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page of

Date Rec'd in Lab: 5/06/23

ALPHA Job #: L2314873

Client Information
Client: Nouvelle LLC
Address: 10 Jones Ave
Rochester NY 14608
Phone: 585-178-3167
Fax:
Email: lreid@nou-velle.com

Project Information
Project Name: Penn Yan Former MGP S/H
Project Location: Penn Yan, NY
Project # 2023080
(Use Project name as Project #) ☐
Project Manager: Logan Reid
ALPHAQuote #:

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	BTEX 8260	PAHs 8270	Total Cyanide	Total Bottle	Sample Specific Comments
314873-01	MW-1 050323	5/3/23	17:00	GW	JC	X	X	X		
-02	MW 2D - 050423	5/4/23	12:45	GW	JC	X	X	X		
-03	MW 2S - 050423	5/4/23	14:25	GW	JC	X	X	X		
-04	Equipment Blank	5/4/23	13:20	W	JC	X	X	X		
-05	Trip Blank	5/5/23	9:00	W	JC	X				

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

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

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

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	5/5/23 @10:30	AAL Secure Storage	5/5/23 1030
AAL Secure Storage	5/5/23 1305	AAL	5/5/23 1305
	5/5/23 1305	05106123-0020	

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

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

ANALYTICAL REPORT

Lab Number:	L2325320
Client:	NEU-VELLE Inc 10 Jones Avenue Rochester, NY 14608
ATTN:	Logan Reid
Phone:	(585) 478-3167
Project Name:	PENN YAN FORMER MGP SITE
Project Number:	2023080
Report Date:	05/22/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080

Lab Number: L2325320
Report Date: 05/22/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2325320-01	MW6-050523	WATER	PENN YAN, NY	05/05/23 14:35	05/08/23
L2325320-02	MW5-050523	WATER	PENN YAN, NY	05/05/23 17:25	05/08/23
L2325320-03	MW3A-050823	WATER	PENN YAN, NY	05/08/23 13:35	05/08/23
L2325320-04	TRIP BLANK	WATER	PENN YAN, NY	05/08/23 00:00	05/08/23

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2325320
Project Number:	2023080	**Report Date:**	05/22/23

Case Narrative

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

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

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

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

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

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

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2325320
Project Number:	2023080	**Report Date:**	05/22/23

Case Narrative (continued)

Report Submission

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

Sample Receipt

The analyses performed were specified by the client.

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 05/22/23

ORGANICS

VOLATILES

Project Name: PENN YAN FORMER MGP SITE
Lab Number: L2325320
Project Number: 2023080
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-01
Client ID: MW6-050523
Sample Location: PENN YAN, NY

Date Collected: 05/05/23 14:35
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/12/23 22:45
Analyst: MJV

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	126		70-130

Project Name: PENN YAN FORMER MGP SITE
Lab Number: L2325320
Project Number: 2023080
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-02
Client ID: MW5-050523
Sample Location: PENN YAN, NY

Date Collected: 05/05/23 17:25
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/12/23 22:24
Analyst: MJV

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	124		70-130

Project Name: PENN YAN FORMER MGP SITE
Lab Number: L2325320
Project Number: 2023080
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-03
Client ID: MW3A-050823
Sample Location: PENN YAN, NY

Date Collected: 05/08/23 13:35
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/12/23 22:03
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	100		ug/l	0.50	0.16	1
Toluene	0.72	J	ug/l	2.5	0.70	1
Ethylbenzene	28		ug/l	2.5	0.70	1
p/m-Xylene	3.3		ug/l	2.5	0.70	1
o-Xylene	2.3	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

Project Name: PENN YAN FORMER MGP SITE **Lab Number:** L2325320

Project Number: 2023080 **Report Date:** 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-04
Client ID: TRIP BLANK
Sample Location: PENN YAN, NY

Date Collected: 05/08/23 00:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/12/23 21:42
Analyst: MJV

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	126		70-130

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/12/23 19:56
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1779128-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	124		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE

Project Number: 2023080

Lab Number: L2325320

Report Date: 05/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1779128-3 WG1779128-4								
Benzene	94		93		70-130	1		20
Toluene	88		85		70-130	3		20
Ethylbenzene	88		83		70-130	6		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	90		90		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	95		97		70-130
Dibromofluoromethane	100		106		70-130

SEMIVOLATILES

Project Name: PENN YAN FORMER MGP SITE
Lab Number: L2325320
Project Number: 2023080
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-01
Client ID: MW6-050523
Sample Location: PENN YAN, NY

Date Collected: 05/05/23 14:35
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/12/23 20:08
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/11/23 09:39

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	64		15-120
4-Terphenyl-d14	89		41-149

Project Name: PENN YAN FORMER MGP SITE
Lab Number: L2325320
Project Number: 2023080
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-02
Client ID: MW5-050523
Sample Location: PENN YAN, NY

Date Collected: 05/05/23 17:25
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/12/23 20:24
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/11/23 09:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.07	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.05	J	ug/l	0.10	0.01	1
Pyrene	0.08	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	64		15-120
4-Terphenyl-d14	86		41-149

Project Name: PENN YAN FORMER MGP SITE
Lab Number: L2325320
Project Number: 2023080
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-03
Client ID: MW3A-050823
Sample Location: PENN YAN, NY

Date Collected: 05/08/23 13:35
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/13/23 21:58
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/13/23 00:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.01	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	0.66		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.21		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	68		15-120
4-Terphenyl-d14	66		41-149

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/12/23 19:51
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/11/23 09:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG1777656-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	76		15-120
4-Terphenyl-d14	105		41-149

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/13/23 21:41
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/13/23 00:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG1778490-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.02	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	82		15-120
4-Terphenyl-d14	84		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1777656-2 WG1777656-3								
Acenaphthene	79		78		40-140	1		40
2-Chloronaphthalene	70		70		40-140	0		40
Fluoranthene	96		96		40-140	0		40
Naphthalene	69		69		40-140	0		40
Benzo(a)anthracene	90		91		40-140	1		40
Benzo(a)pyrene	101		101		40-140	0		40
Benzo(b)fluoranthene	88		91		40-140	3		40
Benzo(k)fluoranthene	89		85		40-140	5		40
Chrysene	85		84		40-140	1		40
Acenaphthylene	85		85		40-140	0		40
Anthracene	89		89		40-140	0		40
Benzo(ghi)perylene	98		101		40-140	3		40
Fluorene	84		84		40-140	0		40
Phenanthrene	78		79		40-140	1		40
Dibenzo(a,h)anthracene	103		105		40-140	2		40
Indeno(1,2,3-cd)pyrene	102		102		40-140	0		40
Pyrene	96		96		40-140	0		40
2-Methylnaphthalene	74		74		40-140	0		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE

Project Number: 2023080

Lab Number: L2325320

Report Date: 05/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1777656-2 WG1777656-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	90		88		23-120
2-Fluorobiphenyl	71		72		15-120
4-Terphenyl-d14	92		93		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG1778490-2 WG1778490-3								
Acenaphthene	73		73		40-140	0		40
2-Chloronaphthalene	68		67		40-140	1		40
Fluoranthene	79		78		40-140	1		40
Naphthalene	67		66		40-140	2		40
Benzo(a)anthracene	88		85		40-140	3		40
Benzo(a)pyrene	97		96		40-140	1		40
Benzo(b)fluoranthene	87		86		40-140	1		40
Benzo(k)fluoranthene	93		91		40-140	2		40
Chrysene	80		80		40-140	0		40
Acenaphthylene	82		81		40-140	1		40
Anthracene	83		82		40-140	1		40
Benzo(ghi)perylene	85		84		40-140	1		40
Fluorene	79		79		40-140	0		40
Phenanthrene	74		73		40-140	1		40
Dibenzo(a,h)anthracene	92		91		40-140	1		40
Indeno(1,2,3-cd)pyrene	89		87		40-140	2		40
Pyrene	76		75		40-140	1		40
2-Methylnaphthalene	74		72		40-140	3		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE

Project Number: 2023080

Lab Number: L2325320

Report Date: 05/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG1778490-2 WG1778490-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	98		96		23-120
2-Fluorobiphenyl	76		74		15-120
4-Terphenyl-d14	84		81		41-149

INORGANICS
&
MISCELLANEOUS

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-01
Client ID: MW6-050523
Sample Location: PENN YAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/05/23 14:35
Date Received: 05/08/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.237		mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 13:10	1,9010C/9012B	JER

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-02
Client ID: MW5-050523
Sample Location: PENN YAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/05/23 17:25
Date Received: 05/08/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 13:12	1,9010C/9012B	JER

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

SAMPLE RESULTS

Lab ID: L2325320-03
Client ID: MW3A-050823
Sample Location: PENN YAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/08/23 13:35
Date Received: 05/08/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.036		mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 13:15	1,9010C/9012B	JER

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1778857-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 12:53	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1778858-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/15/23 03:55	05/16/23 12:53	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE

Project Number: 2023080

Lab Number: L2325320

Report Date: 05/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1778857-2 WG1778857-3								
Cyanide, Total	90		96		85-115	6		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1778858-2 WG1778858-3								
Cyanide, Total	90		96		85-115	6		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080
Lab Number: L2325320
Report Date: 05/22/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1778857-4 WG1778857-5 QC Sample: L2325061-01 Client ID: MS Sample												
Cyanide, Total	0.001J	0.2	0.210	105		0.208	104		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1778858-4 WG1778858-5 QC Sample: L2325320-02 Client ID: MW5-050523												
Cyanide, Total	0.001J	0.2	0.211	106		0.219	110		80-120	4		20

Project Name: PENN YAN FORMER MGP SITE
Project Number: 2023080

Lab Number: L2325320
Report Date: 05/22/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2325320-01A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-01B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-01C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-01D	Plastic 250ml NaOH preserved	A	>12	>12	4.3	Y	Absent		TCN-9010(14)
L2325320-01E	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2325320-01F	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2325320-02A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-02B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-02C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-02D	Plastic 250ml NaOH preserved	A	>12	>12	4.3	Y	Absent		TCN-9010(14)
L2325320-02E	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2325320-02F	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2325320-03A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-03B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-03C	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-03D	Plastic 250ml NaOH preserved	A	>12	>12	4.3	Y	Absent		TCN-9010(14)
L2325320-03E	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2325320-03F	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		NYTCL-PAHSIM-LVI(7)
L2325320-04A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)
L2325320-04B	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2325320
Project Number:	2023080	**Report Date:**	05/22/23

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2325320
Project Number:	2023080	**Report Date:**	05/22/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2325320
Project Number:	2023080	**Report Date:**	05/22/23

Data Qualifiers

Identified Compounds (TICs).

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	PENN YAN FORMER MGP SITE	**Lab Number:**	L2325320
Project Number:	2023080	**Report Date:**	05/22/23

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page of

Date Rec'd in Lab: 5/9/23

ALPHA Job #: L2325320

Client Information
Client: Nen-velle LLC
Address: 10 Jones Ave
Rochester NY 14606
Phone: 585-478-3167
Fax:
Email: l.reid@nen-velle.com

Project Information
Project Name: Penn Yan Final MGP Site
Project Location: Penn Yan, NY
Project # 2027080
(Use Project name as Project #) ☐
Project Manager: Logan Reid
ALPHAQuote #:

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

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

Billing Information
☒ Same as Client Info
PO #

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

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Turned in Day 3 of 7 day hold for 5/5/23 samples

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	BTEX 8260	PAHs 8270	Total Grain						Sample Specific Comments	Total Bottle
25320-01	MW 6-050523	5/5/23	14:35	GW	JC	X	X	X							
02	MW 5-050523	5/5/23	17:25	GW	JC	X	X	X							
03	MW 3A-050823	5/8/23	13:35	GW	JC	X	X	X							
04	Trip Blank			W	X	X									

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

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

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

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	5/8/23 @ 16:00		5/9/23 0010

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

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