NEU-VELLE LLC

April 11, 2023

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

Re: Jacobs Brook Sampling Report November 2022
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 Jacobs Brook multi-media 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 sampling was completed by NEU-VELLE, LLC (NEU-VELLE) personnel in accordance with the Corrective Measures Response Letter and Response to Comments Letter prepared by NEU-VELLE and dated June 20, 2022 and August 22, 2022, respectively.

SCOPE OF WORK

Multi-Media Sampling of Jacobs Brook

On November 16, 2022, surface water, pore water, and sediment samples were collected from Jacobs Brook in locations similar to the RI locations DWN-1, DWN-2, and DWN-3, as depicted on **Figure 2**. These locations are in the vicinity and downgradient of where groundwater from MW-4S discharges to Jacobs Brook. The sample collection proceeded from downstream to upstream, with surface water collection performed first, followed by pore water, then bulk sediment. Areas of deeper fine sediment were chosen for sample collection. Samples were always collected from undisturbed areas. Two staff from the NYSDEC, Gerry Pratt and an associate, were present and observed the sampling.

Surface water samples were collected via a direct fill method of laboratory supplied bottles, with care taken not to spill any preservative contained in bottles. Pore water samples were collected using a pore water extraction device (i.e., PushPoint™) and a peristaltic pump to extract the pore water. Pore water sampling techniques adhered to the United States Environmental Protection Agency (USEPA) operating procedure, "Pore Water Sampling", dated May 13, 2020. New polyethylene tubing was used for each sample and the PushPoint™ was thoroughly cleaned with soapy water and rinsed with distilled water. Prior to initiating purging, field personnel donned new nitrile gloves, and care was taken to avoid introducing contaminants into the PushPoint™. Pore

borehole was developed prior to collecting water quality measurements and samples by purging and discharging the initial pore water (a few millileters total), and allowing for the pore water to be visibly clear. Water quality measurement were recorded pre- and post-sampling using a Myropn 6P and included oxidation reduction potential (ORP), specific conductance, and pH. Water quality measurements, as well as other pertinent sample collection data, were recorded on the sampling field forms and are presented as **Attachment 1**. Following collection of the pore water samples and final water quality measurements, a bulk sediment sample was collected using a stainless steel sampling spoon. The sampling spoon was thoroughly decontaminated using soapy water and a stiff brush, followed by a rinse with distilled water, prior to collection of each sediment sample. Sampling information for surface water, pore water, and sediment samples are found on the sampling field form for each location, as presented in **Attachment 1**.

New nitrile gloves were donned by field personnel prior to the collection of each 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 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
- for bulk sediment only, total organic carbon was analyzed in accordance with USEPA "Determination of Total Organic Carbon in Sediment, July 27, 1988.

A laboratory supplied trip blank was included with the samples as a Quality Assurance/Quality Control (QA/QC) measure.

Reporting of Results

Copies of the laboratory analytical reports are presented in **Exhibit A,** and the analytical results are summarized in **Tables 1, 2, and 3** of this report.

RESULTS

Analytical Results

The sample analytical results are organized by media and were compared to the applicable NYSDEC standards, criteria, and guidance (SCG). **Table 1** presents the pore water sample analytical results, compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Class A, SCGs**,** as follows:

- BTEX compounds were not detected above the laboratory reporting limits;

- One (1) PAH (acenaphthene) was detected (6.7 micrograms per liter [μg/L]) above laboratory reporting limits in one (1) of the pore water samples collected (PORE-DWN-04) but below the respective TOGS 1.1.1 Class GA SCG values (20 μg/L). No other PAHs were detected in any samples above the laboratory reporting limits.

Table 2 presents the surface water sample analytical results, compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Surface Water, SCGs**,** as follows:

- BTEX compounds were not detected above the laboratory reporting limits;
- PAHs were not detected above the laboratory reporting limits.

Table 3 presents the sediment sample analytical results, compared to the NYSDEC Division of Fish, Wildlife and Marine Resources Bureau of Habitat "Screening and Assessing of Contaminated Sediment" Sediment Guidance Value (SGV), as follows:

- Total xylenes were detected (7.55 μg/kg) above the laboratory reporting limit in one of the sediment samples collected (SED-DWN-04) but below the respective Freshwater Class A SGV (< 590 μg/kg). No other BTEX compounds were detected in any of the samples above the laboratory reporting limits;
- Several PAHs (benzo(a)pyrene [954 μg/kg], fluoranthene [2,000 μg/kg], phenanthrene [2,100 μg/kg], and pyrene [1,500 μg/kg]) were detected in the SED-DWN-04 sediment samples above the laboratory reporting limits. Additionally, several PAHs were estimated at concentrations below the laboratory reporting limits in each of the three (3) sediment samples. Each of the detected PAH concentrations were below the respective PAH SGV (μg/kg sediment @ 2% TOC) as presented in Table 7 of the "Screening and Assessing of Contaminated Sediment", dated June 24, 2014.

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

- No BTEX compounds were detected in the Trip Blank sample.

CONCLUSIONS

This report presents the results of the Jacobs Brook multi-media sampling event completed at the NYSEG Jackson Street Former MGP site, Penn Yan, NY (NYSDEC Site No. 862008) on November 16, 2022.

BTEX and PAH compounds were not detected above their respective TOGS 1.1.1 Class GA SCG in pore water, TOGS 1.1.1 Surface Water SCG in surface water, nor Freshwater Class A SGV in sediment. These compounds were not detected above the laboratory detection limits in surface water, as was the case with the RI surface water samples as well.

One (1) PAH (acenaphthene) was detected (6.7 micrograms per liter [μg/L]) above laboratory reporting limits in one (1) of the pore water samples collected (PORE-DWN-04). This PAH was not

detected in the corresponding bulk sediment sample at SED-DWN-04. The PAHs detected in the bulk sediment sample were not detected in the corresponding pore water samples.

The analytical results for the bulk sediment samples were screened against SGVs presented in Table 5 (for BTEX compounds) and Table 7 (for PAH compounds) of the "Screening and Assessing of Contaminated Sediment", dated June 24, 2014. The initial screening indicated that these sediments are likely Class A sediments and therefore considered to be of low risk to aquatic life. Additional analysis, such as calculating toxic units, of the sediment contaminants detected was not performed as part of this letter report. The concentrations of the PAHs detected in sediment samples are within the background ranges presented in the Remedial Investigation Report (RIR) (Amec Geomatrix, Inc., March 2009.

The main objective of the multi-media sampling in Jacobs Brook was to assess for potential off-Site migration of on-Site contaminants detected during the first (1st) annual Groundwater Water Monitoring Program (GWMP) sampling event performed in December 2021. Based on the results presented in this report, there is not clear evidence of off-Site migration of on-Site contaminants.

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 – Pore Water Sample Analytical Results
Table 2 – Surface Water Sample Analytical Results
Table 3 – Sediment Sample Analytical Results
Figure 1 – Site Location
Figure 2 – Sediment/Pore Water/Surface Water Sample Locations
Attachment 1 – Field Sampling Forms
Exhibit A – Laboratory Report

Tables

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Table 1
Pore Water Sample Analytical Results

	Sample Location		PORE-DWN-04	PORE-DWN-05	PORE-DWN-06
	Sample Date		11/16/2022	11/16/2022	11/16/2022
	Sample Identification		PORE-DWN-04-111622	PORE-DWN-05-111622	PORE-DWN-06-111622
Analyte	TOGS 1.1.1 Groundwater SCG	Units	Result	Result	Result
BTEX					
Benzene	1	µg/L	ND < 1.0	ND < 1.0	ND < 1.0
Ethylbenzene	5	µg/L	ND < 2.0	ND < 2.0	ND < 2.0
Toluene	5	µg/L	ND < 2.0	ND < 2.0	ND < 2.0
Xylenes, Total	5	µg/L	ND < 2.0	ND < 2.0	ND < 2.0
PAHs					
Acenaphthene	20	µg/L	**6.27**	ND < 5.30	ND < 5.23
Acenaphthylene	NS	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Anthracene	50	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Benzo(a)anthracene	0.002	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Benzo(a)pyrene	ND	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Benzo(b)fluoranthene	0.002	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Benzo(g,h,i)perylene	NS	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Benzo(k)fluoranthene	0.002	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Chrysene	0.002	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Dibenzo(a,h)anthracene	NS	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Fluoranthene	50	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Fluorene	50	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Indeno(1,2,3-cd) pyrene	0.002	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Naphthalene	10	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Phenanthrene	50	µg/L	ND < 5.47	ND < 5.30	ND < 5.23
Pyrene	50	µg/L	ND < 5.47	ND < 5.30	ND < 5.23

Notes:

1. µg/L = micrograms per liter
2. "NS" = no standard and "ND" = non-detect
3. Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
4. **Bold Sample result** = compound was detected.

Table 2
Surface Water Sample Analytical Results

			Sample Location	SW-DWN-04	SW-DWN-05	SW-DWN-06
			Sample Date	11/16/2022	11/16/2022	11/16/2022
			Sample Identification	SW-DWN-04-111622	SW-DWN-05-111622	SW-DWN-06-111622
Analyte	TOGS 1.1.1 Surface Water SCG*	Units		Result	Result	Result
BTEX						
Benzene	1	µg/L		ND < 1.0	ND < 1.0	ND < 1.0
Ethylbenzene	5	µg/L		ND < 2.0	ND < 2.0	ND < 2.0
Toluene	5	µg/L		ND < 2.0	ND < 2.0	ND < 2.0
Xylenes, Total	5	µg/L		ND < 2.0	ND < 2.0	ND < 2.0
PAHs						
Acenaphthene	5.3	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Acenaphthylene	NS	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Anthracene	50	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Benzo(a)anthracene	0.002	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Benzo(a)pyrene	0.002	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Benzo(b)fluoranthene	0.002	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Benzo(g,h,i)perylene	NS	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Benzo(k)fluoranthene	0.002	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Chrysene	0.002	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Dibenzo(a,h)anthracene	NS	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Fluoranthene	50	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Fluorene	50	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Indeno(1,2,3-cd) pyrene	0.002	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Naphthalene	13	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Phenanthrene	50	µg/L		ND < 5.03	ND < 5.10	ND < 5.64
Pyrene	50	µg/L		ND < 5.03	ND < 5.10	ND < 5.64

Notes:

1. µg/L = micrograms per liter
2. "ND" = non-detect
3. Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
4. Surface Water SCG is most conservative (lowest) value for fresh water human water source H(WS)
5. RI Results for surface water sampling were ND for BTEX and PAHs.

Table 3
Sediment Sample Analytical Results

			Sample Location	SED-DWN-1	SED-DWN-04	SED-DWN-2	SED-DWN-05	SED-DWN-3	SED-DWN-06
			Sample Date	9/27/2007	11/16/2022	9/27/2007	11/16/2022	9/27/2007	11/16/2022
			Sample Identification	SED-DWNSTRM1	SED-DWN-04-111622	SED-DWNSTRM2	SED-DWN-05-111622	SED-DWNSTRM3	SED-DWN-06-111622
Analyte	Freshwater Class A SGVs*	Units	(Upstream) Range of RI Sediment Results	Result	Result	Result	Result	Result	Result
BTEX	(Table 5)								
Benzene	< 530	µg/kg	ND	ND	ND < 6.47	ND	ND < 7.15	ND	ND < 3.89
Ethylbenzene	< 430	µg/kg	ND	ND	ND < 6.47	ND	ND < 7.15	ND	ND < 3.89
Toluene	< 930	µg/kg	ND	ND	ND < 6.47	ND	ND < 7.15	ND	ND < 3.89
Xylenes, Total	< 590	µg/kg	ND	ND	**7.55**	ND	ND < 7.15	ND	ND < 3.89
PAHs	(Table 7, @2% TOC)								
Acenaphthene	9,820	µg/kg	ND	**210 J**	ND < 913	ND < 1,100	ND < 875	ND < 230	ND < 707
Acenaphthylene	9,040	µg/kg	ND	ND < 2,100	ND < 913	ND < 1,100	ND < 875	ND < 230	ND < 707
Anthracene	11,880	µg/kg	ND - 100	**530 J**	ND < 913	ND < 1,100	ND < 875	**32 J**	ND < 707
Benzo(a)anthracene	16,820	µg/kg	48 - 2,000	**2,500**	**663 J**	**190 J**	ND < 875	**240**	ND < 707
Benzo(a)pyrene	19,280	µg/kg	59 - 2,500	**2,600 J**	**954**	**240 J**	**457 J**	**220 J**	ND < 707
Benzo(b)fluoranthene	19,580	µg/kg	110 - 5,000	**4,600 J**	**881 J**	**360 J**	**506 J**	**350**	**378 J**
Benzo(g,h,i)perylene	21,900	µg/kg	57 - 2,800	**2,200**	**544 J**	**210 J**	ND < 875	**130 J**	ND < 707
Benzo(k)fluoranthene	19,600	µg/kg	ND - 59	**4,900 J**	**656 J**	ND < 1,100	ND < 875	**370**	ND < 707
Chrysene	16,860	µg/kg	14 - 3,100	**2,700**	**862 J**	**200 J**	ND < 875	**220 J**	ND < 707
Dibenzo(a,h)anthracene	22,440	µg/kg	ND - 660	**490 J**	ND < 913	**54 J**	ND < 875	**44 J**	ND < 707
Fluoranthene	14,160	µg/kg	ND - 5,200	**7,000 J**	**2,000**	**270 J**	**853 J**	**360**	**504 J**
Fluorene	10,780	µg/kg	ND - 110	**300 J**	ND < 913	ND < 1,100	ND < 875	ND < 230	ND < 707
Indeno(1,2,3-cd) pyrene	21,900	µg/kg	ND - 2,200	**1,900 J**	ND < 913	**150 J**	ND < 875	**130 J**	ND < 707
Naphthalene	7,700	µg/kg	ND	ND < 2,100	**809 J**	ND < 1,100	ND < 875	ND < 230	ND < 707
Phenanthrene	11,940	µg/kg	ND - 2,000	**3,900 B**	**2,100**	ND < 1,100	ND < 875	ND < 230	ND < 707
Pyrene	13,960	µg/kg	ND - 4,300	**5,000 J**	**1,500**	**300 J**	**679 J**	**300**	**413 J**
Other Testing									
Total Organic Carbon (average)	NS	%	Not Tested	Not Tested	2.42	Not Tested	2.45	Not Tested	1.56

Notes:

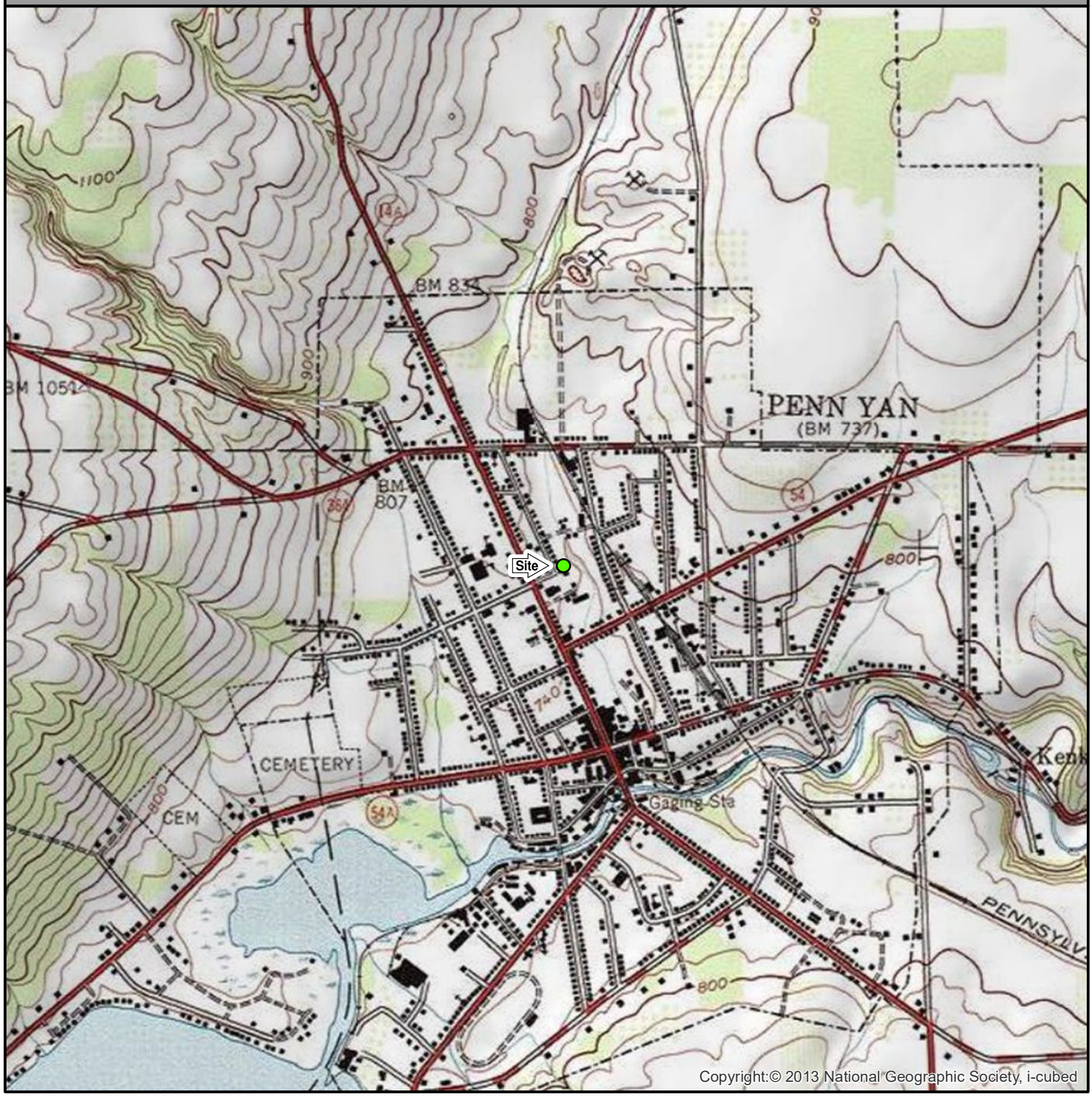
1. µg/kg = micrograms per kilogram
2. "ND" = non-detect
3. * NYSDEC Division of Fish, Wildlife and Marine Resources Bureau of Habitat "Screening and Assessing of Contaminated Sediment" Sediment Guidance Value (SGV), Table 7, June 24, 2014.
4. **Bold Sample result** = compound was detected.
5. "J" is 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"

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 -
SENECA COUNTY

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

SITE LOCATION

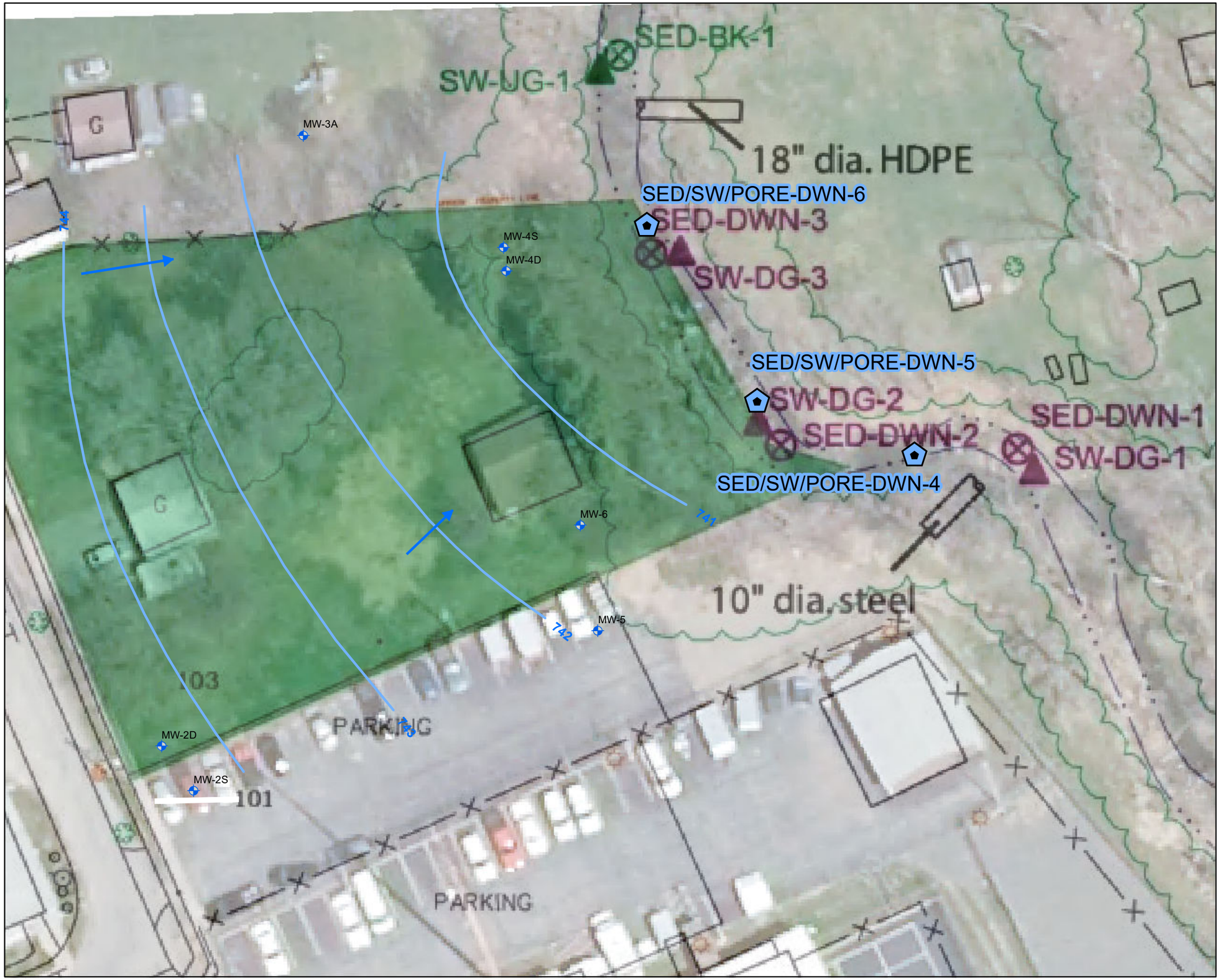
N

2,000 1,000 0 2,000
Feet

JANUARY 2022

NEU-VELLE LLC

FIGURE 2



LEGEND

- SURFACE/SEDIMENT/PORE WATER SAMPLE LOCATION
- INFERRED GROUNDWATER ELEVATION CONTOUR (DEC. 2021)
- INFERRED GROUNDWATER FLOW DIRECTION (DEC. 2021)

NOTES:
1. BASEMAP ADAPTED FROM RIR, FIGURE 7.
2. GROUNDWATER ELEVATION MEASURED DECEMBER 1, 2021 IN FEET (NAVD 88).
3. ALL LOCATIONS ARE APPROXIMATE.

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

SEDIMENT/PORE WATER/ SURFACE WATER SAMPLE LOCATIONS

0 15 30 60
Feet

APRIL 2023

NEU-VELLE LLC

Attachment 1

Field Sampling Forms

NEU-VELLE LLC

SURFACE/ PORE WATER & SEDIMENT SAMPLE RECORD

Project: NYSEG Penn Yan Jackson St Former MGP	Project#:
Date: 11/~~15~~16/22 new 6	Samplers: L.Reid / K. Miller
Sample IDs: SW-DWN-04-111622	Time: 10:45
Sample IDs: PORE-DWN-04-111622	Time: 11:15
Sample IDs: SED-DWN-04-111622	Time: 11:35

Sample Location:

Surface Water Depth: 3"-6" (3" @ sample pt.)

Surface Water Appearance: cond 799.9 ~~ORP 96~~ ~~pH~~ 8.12

Pore Water Collection Depth: top of "T handle" 14" above streambed

Pore Water Appearance: (Initial): dark gray both

(Final): slightly cloudy sulfur

Sediment Thickness: sampled to swampy odor 12" below streambed

Water Quality Parameters ORP: -55/-112 Cond: 852/856.8 pH: 7.1/7.64 sediment pore pre/post sample

Sample Collection Method **SW:** Direct Fill, **Pore:** PushPoint/peristaltic pump (PAHs) ~~Dedicated Syringe (BTEX)~~, **Sed:** Stainless Steel scoop

Sediment Sample Description dark gray to black organics, fine roots and silt trace f sand saturated

Sample (sediment)(Headspace (ppm) NM

Sample Analysis SW/PORE: BTEX (8260), PAHs (8270), SED: BTEX (8260), PAHs (8270), Total Organic Carbon

Weather

Precipitation: NONE Wind: ±SW to ~~calm~~ Calm Temperature: ± 40°F

Comments:

Sample locations collected using a Trimble Geo7X handheld GPS device.

NEU-VELLE LLC

SURFACE/ PORE WATER & SEDIMENT SAMPLE RECORD

Project: NYSEG Penn Yan Jackson St Former MGP	Project#:
Date: 11/15/22 16	Samplers: L.Reid / K. Miller
Sample IDs: SW-DWN-05-111622	Time: 12:00
Sample IDs: PORE-DWN-05-111622	Time: 12:30
Sample IDs: SED-DWN-05-111622	Time: 12:45

Sample Location:

Surface Water Depth: 8" - 12"

Surface Water Appearance: clear

Pore Water Collection Depth: ± 9.25" (meas. 2'2" from T handle)

Pore Water Appearance: (Initial): slightly cloudy

(Final): clear No odor

Sediment Thickness: ± 2" - 3"

sampling depth below screen bed

Water Quality Parameters ORP: 25 | Cond: 745.3 | pH: 8.21

surface water: pre/post sampling -39/-2 | 826.5/822.8 | 7.77/7.81

Sample Collection Method **SW:** Direct Fill, **Pore:** PushPoint/peristaltic pump (PAHs) ~~Dedicated Syringe~~ (BTEX), **Sed:** Stainless Steel scoop

Sediment Sample Description dark gray/brown fine sand and organics, trace silt saturated

Sample (sediment)(Headspace (ppm) NM

Sample Analysis SW/PORE: BTEX (8260), PAHs (8270), SED: BTEX (8260), PAHs (8270), Total Organic Carbon

Weather

Precipitation: NONE Wind: SW + calm Temperature: ± 40°F

Comments:

Sample locations collected using a Trimble Geo7X handheld GPS device.

2'11.25" is the length of SS pore water sampler measured from tip to T handle

0.5" to 2" from tip is screened zone

NEU-VELLE LLC

SURFACE/ PORE WATER & SEDIMENT SAMPLE RECORD

Project: NYSEG Penn Yan Jackson St Former MGP	Project#:
Date: 11/~~15~~16/22	Samplers: L.Reid / K. Miller
Sample IDs: SW-DWN-06-111622	Time: 13:15
Sample IDs: PORE-DWN-06-111622	Time: 13:30
Sample IDs: SED-DWN-06-111622	Time: 13:45

Sample Location:

Surface Water Depth: 6" - 12" (9" meas.)

Surface Water Appearance: clear

Pore Water Collection Depth: 18.5" from T handle to streambed

Pore Water Appearance: (Initial): ~~Slightly cloudy~~

(Final): clear

Sediment Thickness: ± 2"-3"

Water Quality Parameters ORP: 77 / -12/-43 Cond: 704.5 / 728.6 / 760.4 pH: 8.35 / 7.80 / 7.78

surface pore water pre/post

Sample Collection Method **SW:** Direct Fill, **Pore:** PushPoint/peristaltic pump (PAHs) ~~Dedicated Syringe~~ (BTEX), **Sed:** Stainless Steel scoop

Sediment Sample Description Dark gray/brown f grained, silt and organics

Sample (sediment)(Headspace (ppm) NM

Sample Analysis SW/PORE: BTEX (8260), PAHs (8270), SED: BTEX (8260), PAHs (8270), Total Organic Carbon

Weather

Precipitation: lt rain Wind: calm Temperature: ± 40°F

Comments:

Sample locations collected using a Trimble Geo7X handheld GPS device.

NEU-VELLE LLC

Exhibit A

Laboratory Report

NEU-VELLE LLC

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Neu-Velle

For Lab Project ID

225568

Referencing

Penn Yan Jackson St. Fmr. MGP

Prepared

Thursday, December 15, 2022

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier: SW-DWN-04-111622
Lab Sample ID: 225568-01 **Date Sampled:** 11/16/2022 10:45
Matrix: Water **Date Received** 11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 5.03	ug/L		11/21/2022 23:28
Acenaphthylene	< 5.03	ug/L		11/21/2022 23:28
Anthracene	< 5.03	ug/L		11/21/2022 23:28
Benzo (a) anthracene	< 5.03	ug/L		11/21/2022 23:28
Benzo (a) pyrene	< 5.03	ug/L		11/21/2022 23:28
Benzo (b) fluoranthene	< 5.03	ug/L		11/21/2022 23:28
Benzo (g,h,i) perylene	< 5.03	ug/L		11/21/2022 23:28
Benzo (k) fluoranthene	< 5.03	ug/L		11/21/2022 23:28
Chrysene	< 5.03	ug/L		11/21/2022 23:28
Dibenz (a,h) anthracene	< 5.03	ug/L		11/21/2022 23:28
Fluoranthene	< 5.03	ug/L		11/21/2022 23:28
Fluorene	< 5.03	ug/L		11/21/2022 23:28
Indeno (1,2,3-cd) pyrene	< 5.03	ug/L		11/21/2022 23:28
Naphthalene	< 5.03	ug/L		11/21/2022 23:28
Phenanthrene	< 5.03	ug/L		11/21/2022 23:28
Pyrene	< 5.03	ug/L		11/21/2022 23:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**40.1**	10 - 124		11/21/2022 23:28
Nitrobenzene-d5	**70.0**	28.7 - 119		11/21/2022 23:28
Terphenyl-d14	**76.4**	32.2 - 142		11/21/2022 23:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/19/2022
Data File: B65128.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		11/23/2022 13:57
Ethylbenzene	< 2.00	ug/L		11/23/2022 13:57

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier: SW-DWN-04-111622
Lab Sample ID: 225568-01 **Date Sampled:** 11/16/2022 10:45
Matrix: Water **Date Received** 11/16/2022

m,p-Xylene	< 2.00	ug/L			11/23/2022 13:57
o-Xylene	< 2.00	ug/L			11/23/2022 13:57
Toluene	< 2.00	ug/L			11/23/2022 13:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**93.6**	81.1 - 136		11/23/2022 13:57
4-Bromofluorobenzene	**97.2**	75.8 - 132		11/23/2022 13:57
Pentafluorobenzene	**103**	82 - 132		11/23/2022 13:57
Toluene-D8	**104**	64.6 - 137		11/23/2022 13:57

Method Reference(s): EPA 8260C
EPA 5030C
Data File: z13669.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	PORE-DWN-04-111622		
Lab Sample ID:	225568-02	**Date Sampled:**	11/16/2022 11:15
Matrix:	Groundwater	**Date Received**	11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	**6.27**	ug/L		11/21/2022 23:57
Acenaphthylene	< 5.47	ug/L		11/21/2022 23:57
Anthracene	< 5.47	ug/L		11/21/2022 23:57
Benzo (a) anthracene	< 5.47	ug/L		11/21/2022 23:57
Benzo (a) pyrene	< 5.47	ug/L		11/21/2022 23:57
Benzo (b) fluoranthene	< 5.47	ug/L		11/21/2022 23:57
Benzo (g,h,i) perylene	< 5.47	ug/L		11/21/2022 23:57
Benzo (k) fluoranthene	< 5.47	ug/L		11/21/2022 23:57
Chrysene	< 5.47	ug/L		11/21/2022 23:57
Dibenz (a,h) anthracene	< 5.47	ug/L		11/21/2022 23:57
Fluoranthene	< 5.47	ug/L		11/21/2022 23:57
Fluorene	< 5.47	ug/L		11/21/2022 23:57
Indeno (1,2,3-cd) pyrene	< 5.47	ug/L		11/21/2022 23:57
Naphthalene	< 5.47	ug/L		11/21/2022 23:57
Phenanthrene	< 5.47	ug/L		11/21/2022 23:57
Pyrene	< 5.47	ug/L		11/21/2022 23:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**47.0**	10 - 124		11/21/2022 23:57
Nitrobenzene-d5	**71.8**	28.7 - 119		11/21/2022 23:57
Terphenyl-d14	**75.7**	32.2 - 142		11/21/2022 23:57

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/19/2022
Data File: B65129.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		11/23/2022 14:16
Ethylbenzene	< 2.00	ug/L		11/23/2022 14:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	PORE-DWN-04-111622		
Lab Sample ID:	225568-02	**Date Sampled:**	11/16/2022 11:15
Matrix:	Groundwater	**Date Received**	11/16/2022

m,p-Xylene	< 2.00	ug/L			11/23/2022 14:16
o-Xylene	< 2.00	ug/L			11/23/2022 14:16
Toluene	< 2.00	ug/L			11/23/2022 14:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**93.3**	81.1 - 136		11/23/2022 14:16
4-Bromofluorobenzene	**92.2**	75.8 - 132		11/23/2022 14:16
Pentafluorobenzene	**103**	82 - 132		11/23/2022 14:16
Toluene-D8	**103**	64.6 - 137		11/23/2022 14:16

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z13670.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	SED-DWN-04-111622		
Lab Sample ID:	225568-03	**Date Sampled:**	11/16/2022 11:35
Matrix:	Soil	**Date Received**	11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 913	ug/Kg		12/2/2022 11:13
Acenaphthylene	< 913	ug/Kg		12/2/2022 11:13
Anthracene	< 913	ug/Kg		12/2/2022 11:13
Benzo (a) anthracene	**663**	ug/Kg	J	12/2/2022 11:13
Benzo (a) pyrene	**954**	ug/Kg		12/2/2022 11:13
Benzo (b) fluoranthene	**881**	ug/Kg	J	12/2/2022 11:13
Benzo (g,h,i) perylene	**544**	ug/Kg	J	12/2/2022 11:13
Benzo (k) fluoranthene	**656**	ug/Kg	J	12/2/2022 11:13
Chrysene	**862**	ug/Kg	J	12/2/2022 11:13
Dibenz (a,h) anthracene	< 913	ug/Kg		12/2/2022 11:13
Fluoranthene	**2000**	ug/Kg		12/2/2022 11:13
Fluorene	< 913	ug/Kg		12/2/2022 11:13
Indeno (1,2,3-cd) pyrene	< 913	ug/Kg		12/2/2022 11:13
Naphthalene	**809**	ug/Kg	J	12/2/2022 11:13
Phenanthrene	**2100**	ug/Kg		12/2/2022 11:13
Pyrene	**1500**	ug/Kg		12/2/2022 11:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**115**	39.6 - 84.4	*	12/2/2022 11:13
Nitrobenzene-d5	**103**	36.5 - 78.2	*	12/2/2022 11:13
Terphenyl-d14	**122**	42.3 - 103	*	12/2/2022 11:13

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/22/2022
Data File: B65407.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	SED-DWN-04-111622		
Lab Sample ID:	225568-04	**Date Sampled:**	11/16/2022 11:35
Matrix:	Soil	**Date Received**	11/16/2022

Volatile Organics (BTEX)

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 6.47	ug/Kg		11/28/2022 15:02
Ethylbenzene	< 6.47	ug/Kg		11/28/2022 15:02
m,p-Xylene	**7.55**	ug/Kg		11/28/2022 15:02
o-Xylene	< 6.47	ug/Kg		11/28/2022 15:02
Toluene	< 6.47	ug/Kg		11/28/2022 15:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**86.6**	74.7 - 140		11/28/2022 15:02
4-Bromofluorobenzene	**88.8**	68 - 130		11/28/2022 15:02
Pentafluorobenzene	**102**	70.3 - 140		11/28/2022 15:02
Toluene-D8	**99.1**	69 - 138		11/28/2022 15:02

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z13707.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	SW-DWN-05-111622		
Lab Sample ID:	225568-05	**Date Sampled:**	11/16/2022 12:00
Matrix:	Water	**Date Received**	11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 5.10	ug/L		11/22/2022 00:26
Acenaphthylene	< 5.10	ug/L		11/22/2022 00:26
Anthracene	< 5.10	ug/L		11/22/2022 00:26
Benzo (a) anthracene	< 5.10	ug/L		11/22/2022 00:26
Benzo (a) pyrene	< 5.10	ug/L		11/22/2022 00:26
Benzo (b) fluoranthene	< 5.10	ug/L		11/22/2022 00:26
Benzo (g,h,i) perylene	< 5.10	ug/L		11/22/2022 00:26
Benzo (k) fluoranthene	< 5.10	ug/L		11/22/2022 00:26
Chrysene	< 5.10	ug/L		11/22/2022 00:26
Dibenz (a,h) anthracene	< 5.10	ug/L		11/22/2022 00:26
Fluoranthene	< 5.10	ug/L		11/22/2022 00:26
Fluorene	< 5.10	ug/L		11/22/2022 00:26
Indeno (1,2,3-cd) pyrene	< 5.10	ug/L		11/22/2022 00:26
Naphthalene	< 5.10	ug/L		11/22/2022 00:26
Phenanthrene	< 5.10	ug/L		11/22/2022 00:26
Pyrene	< 5.10	ug/L		11/22/2022 00:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**49.7**	10 - 124		11/22/2022 00:26
Nitrobenzene-d5	**72.5**	28.7 - 119		11/22/2022 00:26
Terphenyl-d14	**80.8**	32.2 - 142		11/22/2022 00:26

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/19/2022
Data File: B65130.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		11/23/2022 14:36
Ethylbenzene	< 2.00	ug/L		11/23/2022 14:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier: SW-DWN-05-111622
Lab Sample ID: 225568-05 **Date Sampled:** 11/16/2022 12:00
Matrix: Water **Date Received** 11/16/2022

m,p-Xylene	< 2.00	ug/L			11/23/2022 14:36
o-Xylene	< 2.00	ug/L			11/23/2022 14:36
Toluene	< 2.00	ug/L			11/23/2022 14:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**92.9**	81.1 - 136		11/23/2022 14:36
4-Bromofluorobenzene	**93.6**	75.8 - 132		11/23/2022 14:36
Pentafluorobenzene	**103**	82 - 132		11/23/2022 14:36
Toluene-D8	**104**	64.6 - 137		11/23/2022 14:36

Method Reference(s): EPA 8260C
EPA 5030C
Data File: z13671.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	PORE-DWN-05-111622		
Lab Sample ID:	225568-06	**Date Sampled:**	11/16/2022 12:30
Matrix:	Groundwater	**Date Received**	11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 5.30	ug/L		11/22/2022 00:55
Acenaphthylene	< 5.30	ug/L		11/22/2022 00:55
Anthracene	< 5.30	ug/L		11/22/2022 00:55
Benzo (a) anthracene	< 5.30	ug/L		11/22/2022 00:55
Benzo (a) pyrene	< 5.30	ug/L		11/22/2022 00:55
Benzo (b) fluoranthene	< 5.30	ug/L		11/22/2022 00:55
Benzo (g,h,i) perylene	< 5.30	ug/L		11/22/2022 00:55
Benzo (k) fluoranthene	< 5.30	ug/L		11/22/2022 00:55
Chrysene	< 5.30	ug/L		11/22/2022 00:55
Dibenz (a,h) anthracene	< 5.30	ug/L		11/22/2022 00:55
Fluoranthene	< 5.30	ug/L		11/22/2022 00:55
Fluorene	< 5.30	ug/L		11/22/2022 00:55
Indeno (1,2,3-cd) pyrene	< 5.30	ug/L		11/22/2022 00:55
Naphthalene	< 5.30	ug/L		11/22/2022 00:55
Phenanthrene	< 5.30	ug/L		11/22/2022 00:55
Pyrene	< 5.30	ug/L		11/22/2022 00:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**34.9**	10 - 124		11/22/2022 00:55
Nitrobenzene-d5	**65.7**	28.7 - 119		11/22/2022 00:55
Terphenyl-d14	**74.9**	32.2 - 142		11/22/2022 00:55

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/19/2022
Data File: B65131.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		11/23/2022 14:55
Ethylbenzene	< 2.00	ug/L		11/23/2022 14:55

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier: PORE-DWN-05-111622
Lab Sample ID: 225568-06 **Date Sampled:** 11/16/2022 12:30
Matrix: Groundwater **Date Received** 11/16/2022

m,p-Xylene	< 2.00	ug/L			11/23/2022 14:55
o-Xylene	< 2.00	ug/L			11/23/2022 14:55
Toluene	< 2.00	ug/L			11/23/2022 14:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**92.4**	81.1 - 136		11/23/2022 14:55
4-Bromofluorobenzene	**93.3**	75.8 - 132		11/23/2022 14:55
Pentafluorobenzene	**101**	82 - 132		11/23/2022 14:55
Toluene-D8	**100**	64.6 - 137		11/23/2022 14:55

Method Reference(s): EPA 8260C
EPA 5030C
Data File: z13672.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	SED-DWN-05-111622		
Lab Sample ID:	225568-07	**Date Sampled:**	11/16/2022 12:45
Matrix:	Soil	**Date Received**	11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 875	ug/Kg		12/2/2022 11:42
Acenaphthylene	< 875	ug/Kg		12/2/2022 11:42
Anthracene	< 875	ug/Kg		12/2/2022 11:42
Benzo (a) anthracene	< 875	ug/Kg		12/2/2022 11:42
Benzo (a) pyrene	**457**	ug/Kg	J	12/2/2022 11:42
Benzo (b) fluoranthene	**506**	ug/Kg	J	12/2/2022 11:42
Benzo (g,h,i) perylene	< 875	ug/Kg		12/2/2022 11:42
Benzo (k) fluoranthene	< 875	ug/Kg		12/2/2022 11:42
Chrysene	< 875	ug/Kg		12/2/2022 11:42
Dibenz (a,h) anthracene	< 875	ug/Kg		12/2/2022 11:42
Fluoranthene	**853**	ug/Kg	J	12/2/2022 11:42
Fluorene	< 875	ug/Kg		12/2/2022 11:42
Indeno (1,2,3-cd) pyrene	< 875	ug/Kg		12/2/2022 11:42
Naphthalene	< 875	ug/Kg		12/2/2022 11:42
Phenanthrene	< 875	ug/Kg		12/2/2022 11:42
Pyrene	**679**	ug/Kg	J	12/2/2022 11:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**118**	39.6 - 84.4	*	12/2/2022 11:42
Nitrobenzene-d5	**99.1**	36.5 - 78.2	*	12/2/2022 11:42
Terphenyl-d14	**128**	42.3 - 103	*	12/2/2022 11:42

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/22/2022
Data File: B65408.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	SED-DWN-05-111622		
Lab Sample ID:	225568-08	**Date Sampled:**	11/16/2022 12:45
Matrix:	Soil	**Date Received**	11/16/2022

Volatile Organics (BTEX)

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 7.15	ug/Kg		11/28/2022 15:21
Ethylbenzene	< 7.15	ug/Kg		11/28/2022 15:21
m,p-Xylene	< 7.15	ug/Kg		11/28/2022 15:21
o-Xylene	< 7.15	ug/Kg		11/28/2022 15:21
Toluene	< 7.15	ug/Kg		11/28/2022 15:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**92.8**	74.7 - 140		11/28/2022 15:21
4-Bromofluorobenzene	**94.3**	68 - 130		11/28/2022 15:21
Pentafluorobenzene	**99.6**	70.3 - 140		11/28/2022 15:21
Toluene-D8	**103**	69 - 138		11/28/2022 15:21

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z13708.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier: SW-DWN-06-111622
Lab Sample ID: 225568-09 **Date Sampled:** 11/16/2022 13:15
Matrix: Water **Date Received** 11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 5.64	ug/L		11/22/2022 01:24
Acenaphthylene	< 5.64	ug/L		11/22/2022 01:24
Anthracene	< 5.64	ug/L		11/22/2022 01:24
Benzo (a) anthracene	< 5.64	ug/L		11/22/2022 01:24
Benzo (a) pyrene	< 5.64	ug/L		11/22/2022 01:24
Benzo (b) fluoranthene	< 5.64	ug/L		11/22/2022 01:24
Benzo (g,h,i) perylene	< 5.64	ug/L		11/22/2022 01:24
Benzo (k) fluoranthene	< 5.64	ug/L		11/22/2022 01:24
Chrysene	< 5.64	ug/L		11/22/2022 01:24
Dibenz (a,h) anthracene	< 5.64	ug/L		11/22/2022 01:24
Fluoranthene	< 5.64	ug/L		11/22/2022 01:24
Fluorene	< 5.64	ug/L		11/22/2022 01:24
Indeno (1,2,3-cd) pyrene	< 5.64	ug/L		11/22/2022 01:24
Naphthalene	< 5.64	ug/L		11/22/2022 01:24
Phenanthrene	< 5.64	ug/L		11/22/2022 01:24
Pyrene	< 5.64	ug/L		11/22/2022 01:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**42.2**	10 - 124		11/22/2022 01:24
Nitrobenzene-d5	**75.8**	28.7 - 119		11/22/2022 01:24
Terphenyl-d14	**78.5**	32.2 - 142		11/22/2022 01:24

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/19/2022
Data File: B65132.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		11/23/2022 15:15
Ethylbenzene	< 2.00	ug/L		11/23/2022 15:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier: SW-DWN-06-111622
Lab Sample ID: 225568-09 **Date Sampled:** 11/16/2022 13:15
Matrix: Water **Date Received** 11/16/2022

m,p-Xylene	< 2.00	ug/L		11/23/2022 15:15
o-Xylene	< 2.00	ug/L		11/23/2022 15:15
Toluene	< 2.00	ug/L		11/23/2022 15:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**92.6**	81.1 - 136		11/23/2022 15:15
4-Bromofluorobenzene	**97.8**	75.8 - 132		11/23/2022 15:15
Pentafluorobenzene	**101**	82 - 132		11/23/2022 15:15
Toluene-D8	**102**	64.6 - 137		11/23/2022 15:15

Method Reference(s): EPA 8260C
EPA 5030C
Data File: z13673.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	PORE-DWN-06-111622		
Lab Sample ID:	225568-10	**Date Sampled:**	11/16/2022 13:30
Matrix:	Groundwater	**Date Received**	11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 5.23	ug/L		11/22/2022 01:53
Acenaphthylene	< 5.23	ug/L		11/22/2022 01:53
Anthracene	< 5.23	ug/L		11/22/2022 01:53
Benzo (a) anthracene	< 5.23	ug/L		11/22/2022 01:53
Benzo (a) pyrene	< 5.23	ug/L		11/22/2022 01:53
Benzo (b) fluoranthene	< 5.23	ug/L		11/22/2022 01:53
Benzo (g,h,i) perylene	< 5.23	ug/L		11/22/2022 01:53
Benzo (k) fluoranthene	< 5.23	ug/L		11/22/2022 01:53
Chrysene	< 5.23	ug/L		11/22/2022 01:53
Dibenz (a,h) anthracene	< 5.23	ug/L		11/22/2022 01:53
Fluoranthene	< 5.23	ug/L		11/22/2022 01:53
Fluorene	< 5.23	ug/L		11/22/2022 01:53
Indeno (1,2,3-cd) pyrene	< 5.23	ug/L		11/22/2022 01:53
Naphthalene	< 5.23	ug/L		11/22/2022 01:53
Phenanthrene	< 5.23	ug/L		11/22/2022 01:53
Pyrene	< 5.23	ug/L		11/22/2022 01:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**43.7**	10 - 124		11/22/2022 01:53
Nitrobenzene-d5	**74.2**	28.7 - 119		11/22/2022 01:53
Terphenyl-d14	**80.3**	32.2 - 142		11/22/2022 01:53

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/19/2022
Data File: B65133.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		11/23/2022 15:34
Ethylbenzene	< 2.00	ug/L		11/23/2022 15:34

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	PORE-DWN-06-111622		
Lab Sample ID:	225568-10	**Date Sampled:**	11/16/2022 13:30
Matrix:	Groundwater	**Date Received**	11/16/2022

m,p-Xylene	< 2.00	ug/L			11/23/2022 15:34
o-Xylene	< 2.00	ug/L			11/23/2022 15:34
Toluene	< 2.00	ug/L			11/23/2022 15:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**92.4**	81.1 - 136		11/23/2022 15:34
4-Bromofluorobenzene	**90.9**	75.8 - 132		11/23/2022 15:34
Pentafluorobenzene	**104**	82 - 132		11/23/2022 15:34
Toluene-D8	**103**	64.6 - 137		11/23/2022 15:34

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z13674.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	SED-DWN-06-111622		
Lab Sample ID:	225568-11	**Date Sampled:**	11/16/2022 13:45
Matrix:	Soil	**Date Received**	11/16/2022

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 707	ug/Kg		12/2/2022 12:11
Acenaphthylene	< 707	ug/Kg		12/2/2022 12:11
Anthracene	< 707	ug/Kg		12/2/2022 12:11
Benzo (a) anthracene	< 707	ug/Kg		12/2/2022 12:11
Benzo (a) pyrene	< 707	ug/Kg		12/2/2022 12:11
Benzo (b) fluoranthene	**378**	ug/Kg	J	12/2/2022 12:11
Benzo (g,h,i) perylene	< 707	ug/Kg		12/2/2022 12:11
Benzo (k) fluoranthene	< 707	ug/Kg		12/2/2022 12:11
Chrysene	< 707	ug/Kg		12/2/2022 12:11
Dibenz (a,h) anthracene	< 707	ug/Kg		12/2/2022 12:11
Fluoranthene	**504**	ug/Kg	J	12/2/2022 12:11
Fluorene	< 707	ug/Kg		12/2/2022 12:11
Indeno (1,2,3-cd) pyrene	< 707	ug/Kg		12/2/2022 12:11
Naphthalene	< 707	ug/Kg		12/2/2022 12:11
Phenanthrene	< 707	ug/Kg		12/2/2022 12:11
Pyrene	**413**	ug/Kg	J	12/2/2022 12:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**134**	39.6 - 84.4	*	12/2/2022 12:11
Nitrobenzene-d5	**115**	36.5 - 78.2	*	12/2/2022 12:11
Terphenyl-d14	**144**	42.3 - 103	*	12/2/2022 12:11

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/22/2022
Data File: B65409.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	SED-DWN-06-111622		
Lab Sample ID:	225568-12	**Date Sampled:**	11/16/2022 13:45
Matrix:	Soil	**Date Received**	11/16/2022

Volatile Organics (BTEX)

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 3.89	ug/Kg		11/28/2022 15:40
Ethylbenzene	< 3.89	ug/Kg		11/28/2022 15:40
m,p-Xylene	< 3.89	ug/Kg		11/28/2022 15:40
o-Xylene	< 3.89	ug/Kg		11/28/2022 15:40
Toluene	< 3.89	ug/Kg		11/28/2022 15:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**88.4**	74.7 - 140		11/28/2022 15:40
4-Bromofluorobenzene	**96.3**	68 - 130		11/28/2022 15:40
Pentafluorobenzene	**103**	70.3 - 140		11/28/2022 15:40
Toluene-D8	**103**	69 - 138		11/28/2022 15:40

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z13709.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 225568

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Sample Identifier:	Trip Blank		
Lab Sample ID:	225568-13	**Date Sampled:**	11/14/2022
Matrix:	Water	**Date Received**	11/16/2022

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		11/23/2022 15:53
Ethylbenzene	< 2.00	ug/L		11/23/2022 15:53
m,p-Xylene	< 2.00	ug/L		11/23/2022 15:53
o-Xylene	< 2.00	ug/L		11/23/2022 15:53
Toluene	< 2.00	ug/L		11/23/2022 15:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**93.7**	81.1 - 136		11/23/2022 15:53
4-Bromofluorobenzene	**93.9**	75.8 - 132		11/23/2022 15:53
Pentafluorobenzene	**101**	82 - 132		11/23/2022 15:53
Toluene-D8	**102**	64.6 - 137		11/23/2022 15:53

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z13675.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

Matrix: Soil

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	<286	ug/Kg		12/2/2022 02:32
Acenaphthylene	<286	ug/Kg		12/2/2022 02:32
Anthracene	<286	ug/Kg		12/2/2022 02:32
Benzo (a) anthracene	<286	ug/Kg		12/2/2022 02:32
Benzo (a) pyrene	<286	ug/Kg		12/2/2022 02:32
Benzo (b) fluoranthene	<286	ug/Kg		12/2/2022 02:32
Benzo (g,h,i) perylene	<286	ug/Kg		12/2/2022 02:32
Benzo (k) fluoranthene	<286	ug/Kg		12/2/2022 02:32
Chrysene	<286	ug/Kg		12/2/2022 02:32
Dibenz (a,h) anthracene	<286	ug/Kg		12/2/2022 02:32
Fluoranthene	<286	ug/Kg		12/2/2022 02:32
Fluorene	<286	ug/Kg		12/2/2022 02:32
Indeno (1,2,3-cd) pyrene	<286	ug/Kg		12/2/2022 02:32
Naphthalene	<286	ug/Kg		12/2/2022 02:32
Phenanthrene	<286	ug/Kg		12/2/2022 02:32
Pyrene	<286	ug/Kg		12/2/2022 02:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**61.9**	39.6 - 84.4		12/2/2022 02:32
Nitrobenzene-d5	**57.6**	36.5 - 78.2		12/2/2022 02:32
Terphenyl-d14	**74.1**	42.3 - 103		12/2/2022 02:32

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/22/2022
Data File: B65389.D
QC Batch ID: QC221122ABNS
QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

SDG #: 5568-01

Matrix: Soil

Semi-Volatile Organics (PAHs)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Acenaphthene	2810	ug/Kg	2140	76.2	43.5 - 87.2		12/2/2022
Pyrene	2810	ug/Kg	2360	84.1	47.1 - 104		12/2/2022

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 11/22/2022
Data File: B65390.D
QC Number: LCS 1
QC Batch ID: QC221122ABNS

Report Prepared *Thursday, December 15, 2022*

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

SDG #: 5568-01

Matrix: Water

Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed	
Acenaphthene	<10.0	ug/L		11/21/2022	22:30
Acenaphthylene	<10.0	ug/L		11/21/2022	22:30
Anthracene	<10.0	ug/L		11/21/2022	22:30
Benzo (a) anthracene	<10.0	ug/L		11/21/2022	22:30
Benzo (a) pyrene	<10.0	ug/L		11/21/2022	22:30
Benzo (b) fluoranthene	<10.0	ug/L		11/21/2022	22:30
Benzo (g,h,i) perylene	<10.0	ug/L		11/21/2022	22:30
Benzo (k) fluoranthene	<10.0	ug/L		11/21/2022	22:30
Chrysene	<10.0	ug/L		11/21/2022	22:30
Dibenz (a,h) anthracene	<10.0	ug/L		11/21/2022	22:30
Fluoranthene	<10.0	ug/L		11/21/2022	22:30
Fluorene	<10.0	ug/L		11/21/2022	22:30
Indeno (1,2,3-cd) pyrene	<10.0	ug/L		11/21/2022	22:30
Naphthalene	<10.0	ug/L		11/21/2022	22:30
Phenanthrene	<10.0	ug/L		11/21/2022	22:30
Pyrene	<10.0	ug/L		11/21/2022	22:30

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**54.2**	10 - 124		11/21/2022	22:30
Nitrobenzene-d5	**76.7**	28.7 - 119		11/21/2022	22:30
Terphenyl-d14	**84.0**	32.2 - 142		11/21/2022	22:30

Method Reference(s): EPA 8270D
EPA 3510C

Preparation Date: 11/19/2022

Data File: B65126.D

QC Batch ID: QC221119ABNW

QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

SDG #: 5568-01

Matrix: Water

Semi-Volatile Organics (PAHs)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Acenaphthene	50.0	ug/L	33.6	67.1	51.7 - 103		11/21/2022
Pyrene	50.0	ug/L	41.6	83.1	55.6 - 114		11/21/2022

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/19/2022
Data File: B65127.D
QC Number: LCS 1
QC Batch ID: QC221119ABNW

Report Prepared Tuesday, November 29, 2022

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

SDG #: 5568-01

Matrix: Soil

Volatile Organics (BTEX)

Analyte	Result	Units	Qualifier	Date Analyzed	
Benzene	<2.00	ug/Kg		11/28/2022	11:56
Ethylbenzene	<2.00	ug/Kg		11/28/2022	11:56
m,p-Xylene	<2.00	ug/Kg		11/28/2022	11:56
o-Xylene	<2.00	ug/Kg		11/28/2022	11:56
Toluene	<2.00	ug/Kg		11/28/2022	11:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**95.5**	74.7 - 140		11/28/2022	11:56
4-Bromofluorobenzene	**99.1**	68 - 130		11/28/2022	11:56
Pentafluorobenzene	**107**	70.3 - 140		11/28/2022	11:56
Toluene-D8	**107**	69 - 138		11/28/2022	11:56

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z13699.D

QC Batch ID: voas221128

QC Number: Blk 1

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

SDG #: 5568-01

Matrix: Soil

Volatile Organics (BTEX)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Benzene	20.0	ug/Kg	18.5	92.4	77.8 - 119		11/28/2022
Ethylbenzene	20.0	ug/Kg	18.1	90.7	71.6 - 112		11/28/2022
Toluene	20.0	ug/Kg	18.5	92.4	71.1 - 124		11/28/2022

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z13698.D

QC Number: LCS 1

QC Batch ID: voas221128

Report Prepared Tuesday, November 29, 2022

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

SDG #: 5568-01

Matrix: Water

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	<1.00	ug/L		11/23/2022 12:36
Ethylbenzene	<2.00	ug/L		11/23/2022 12:36
m,p-Xylene	<2.00	ug/L		11/23/2022 12:36
o-Xylene	<2.00	ug/L		11/23/2022 12:36
Toluene	<2.00	ug/L		11/23/2022 12:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**93.6**	81.1 - 136		11/23/2022 12:36
4-Bromofluorobenzene	**91.5**	75.8 - 132		11/23/2022 12:36
Pentafluorobenzene	**103**	82 - 132		11/23/2022 12:36
Toluene-D8	**103**	64.6 - 137		11/23/2022 12:36

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z13666.D

QC Batch ID: voaq221123

QC Number: Blk 1

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Neu-Velle**

Project Reference: Penn Yan Jackson St. Fmr. MGP

Lab Project ID: 225568

SDG #: 5568-01

Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Benzene	20.0	ug/L	19.3	96.7	81.6 - 114		11/23/2022
Ethylbenzene	20.0	ug/L	19.0	95.2	72.1 - 110		11/23/2022
Toluene	20.0	ug/L	19.6	97.9	62.9 - 125		11/23/2022

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z13665.D

QC Number: LCS 1

QC Batch ID: voaq221123

Report Prepared Tuesday, November 29, 2022

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"H" = Denotes a parameter analyzed outside of holding time.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

wd2

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES

REPORT TO:		INVOICE TO:		LAB PROJECT ID
COMPANY:	New-Velle LLC	COMPANY:	SAME	225568
address:	10 Jones Ave	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:		
PHONE:	585 478 1666 FAX:	PHONE: FAX:		Email: kmiller@new-velle.com, lreid@new-velle.com
ATTN:	Kyle Miller	ATTN:		

PROJECT REFERENCE: Penn Yan Jackson St. Fmr. MGP

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	BTEX 8260	PAH 8270	TOC							REMARKS	PARADIGM LAB SAMPLE NUMBER
																T1148 created 11/14/22 ZF 11/17/22	11/17 ZF
11/16/22	10:45		X	SW-DWN-04-111622	WA	3	X	X									-01
	11:15		X	PORE-DWN-04-111622	WG	3	X	X									-02
	11:35	X	X	SED-DWN-04-111622	SO	2	X	X	X							grab for VOCs	-03, -04
	12:00		X	SW-DWN-05-111622	WA	3	X	X									-05
	12:30		X	PORE DWN-05-111622	WG	3	X	X									-06
	12:45	X	X	SED-DWN-05-111622	SO	2	X	X	X							grab for VOCs	-07, -08
	13:15		X	SW-DWN-06-111622	WA	3	X	X									-09
	13:30		X	PORE-DWN-06-111622	WG	3	X	X									-10
	13:45	X	X	SED-DWN-06-111622	SO	2	X	X	X							grab for VOCs	-11, -12
				Trip Blank		1	X									(trip blank	-13

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	None Required	☐	None Required ☐
10 day	☒	Batch QC	☐	Basic EDD ☐
Rush 3 day	☐	Category A	☒	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☐	
Rush 1 day	☐			
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed : ☐

Sampled By	K. Miller / L. Reid	11/16/22
Relinquished By		Date/Time 11/16/22 16:45
Received By		Date/Time 11/16/22 16:45
Received @ Lab By		Date/Time @ 1658 11/16/22

Total Cost: P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

6°C @ 1650 11/16/22

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: New-Velle

Lab Project ID: 225568

Completed by: ZL

Date: 11/16/22

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	X	503	
Comments			
Transferred to method-compliant container	X g2→g1 (TOC)		X
Headspace (<1 mL)	X		
Comments			
Preservation	X VOA ~~TO~~ ZF 11/4		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	6°C		
Compliant Sample Quantity/Type	X		
Comments			

ANALYTICAL REPORT

Lab Number:	L2265047
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	225568
Project Number:	225568
Report Date:	12/05/22

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 225568
Project Number: 225568

Lab Number: L2265047
Report Date: 12/05/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2265047-01	SED-DWN-04-111622 225568-03	SOIL	Not Specified	11/16/22 11:35	11/17/22
L2265047-02	SED-DWN-05-111622 225568-07	SOIL	Not Specified	11/16/22 12:45	11/17/22
L2265047-03	SED-DWN-06-111622 225568-11	SOIL	Not Specified	11/16/22 13:45	11/17/22

Project Name:	225568	**Lab Number:**	L2265047
Project Number:	225568	**Report Date:**	12/05/22

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:	225568	**Lab Number:**	L2265047
Project Number:	225568	**Report Date:**	12/05/22

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.

Total Organic Carbon

The WG1716790-4 MS recovery for total organic carbon (rep1) (148%), performed on L2265047-01, is outside the 75-125% acceptance criteria, possibly due to sample matrix. The associated SRM recoveries are within criteria, indicating the sample batch was in control, and all sample results were accepted.

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 Stenstrom

Title: Technical Director/Representative Date: 12/05/22

INORGANICS
&
MISCELLANEOUS

Project Name: 225568
Project Number: 225568

Lab Number: L2265047
Report Date: 12/05/22

SAMPLE RESULTS

Lab ID: L2265047-01
Client ID: SED-DWN-04-111622 225568-03
Sample Location: Not Specified

Sample Depth:
Matrix: Soil

Date Collected: 11/16/22 11:35
Date Received: 11/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.18		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Rep2)	2.67		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Average)	2.42		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP

Project Name: 225568
Project Number: 225568

Lab Number: L2265047
Report Date: 12/05/22

SAMPLE RESULTS

Lab ID: L2265047-02
Client ID: SED-DWN-05-111622 225568-07
Sample Location: Not Specified

Date Collected: 11/16/22 12:45
Date Received: 11/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.39		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Rep2)	2.52		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Average)	2.45		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP

Project Name: 225568
Project Number: 225568

Lab Number: L2265047
Report Date: 12/05/22

SAMPLE RESULTS

Lab ID: L2265047-03
Client ID: SED-DWN-06-111622 225568-11
Sample Location: Not Specified

Date Collected: 11/16/22 13:45
Date Received: 11/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.53		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Rep2)	1.58		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Average)	1.56		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP

Project Name: 225568 **Lab Number:** L2265047

Project Number: 225568 **Report Date:** 12/05/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 01-03 Batch: WG1716790-1										
Total Organic Carbon (Rep1)	ND		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Rep2)	ND		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP
Total Organic Carbon (Average)	ND		%	0.050	0.050	1	-	11/28/22 11:27	13,-	SP

Lab Control Sample Analysis

Batch Quality Control

Project Name: 225568

Project Number: 225568

Lab Number: L2265047

Report Date: 12/05/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-03 Batch: WG1716790-2								
Total Organic Carbon (Rep1)	119		-		75-125	-		25
Total Organic Carbon (Rep2)	98		-		75-125	-		25
Total Organic Carbon (Average)	108		-		75-125	-		25

Matrix Spike Analysis
Batch Quality Control

Project Name: 225568
Project Number: 225568

Lab Number: L2265047
Report Date: 12/05/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1716790-4 QC Sample: L2265047-01 Client ID: SED-DWN-04-111622 225568-03												
Total Organic Carbon (Rep1)	2.18	1.28	4.07	**148**	Q	-	-		75-125	-		25
Total Organic Carbon (Rep2)	2.67	1.3	3.64	75		-	-		75-125	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 225568
Project Number: 225568

Lab Number: L2265047
Report Date: 12/05/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1716790-3 QC Sample: L2265047-01 Client ID: SED-DWN-04-111622 225568-03						
Total Organic Carbon (Rep1)	2.18	2.75	%	23		25
Total Organic Carbon (Rep2)	2.67	2.31	%	14		25
Total Organic Carbon (Average)	2.42	2.53	%	4		25

Project Name: 225568
Project Number: 225568

Lab Number: L2265047
Report Date: 12/05/22

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(*)
L2265047-01A	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		A2-TOC-LK-2REPS(14)
L2265047-02A	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		A2-TOC-LK-2REPS(14)
L2265047-03A	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		A2-TOC-LK-2REPS(14)

*Values in parentheses indicate holding time in days

Project Name:	225568	**Lab Number:**	L2265047
Project Number:	225568	**Report Date:**	12/05/22

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:	225568	**Lab Number:**	L2265047
Project Number:	225568	**Report Date:**	12/05/22

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:	225568	**Lab Number:**	L2265047
Project Number:	225568	**Report Date:**	12/05/22

Data Qualifiers

Identified Compounds (TICs).

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

REFERENCES

13 Determination of Total Organic Carbon in Sediment. U.S. EPA, Region II. July 27, 1988.

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.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311 11/18/22 L2260047 of 1

CHAIN OF CUSTODY

ELAP ID: ~~10709~~ 11148

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:		TURNAROUND TIME: (WORKING DAYS) STD	
CITY: STATE: ZIP:		CITY: STATE: ZIP:			
PHONE: FAX:		PHONE: FAX:		☐1 ☐2 ☐3 ☒5 STD	☐ OTHER
ATTN:	Reporting	ATTN:	Accounts Payable		
COMMENTS:	Please email results to reporting@paradigmenv.com			Date Due: ~~11/29/22~~ ee2f 11/17	

PROJECT NAME/SITE NAME:

REQUESTED ANALYSIS

		DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
-01	1	11/16/22	1135	X		SED-DWN-04-111622	SO	1	X	225568-03	
-02	2	↓	1245	X		SED-DWN-05-111622	SO	1	X	225568-07	
	3	↓	1345	X		SED-DWN-06-111622	SO	1	X	225568-11	
	4										
	5										
	6									QC Supplement	
	7										
	8										
	9										
	10										

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client	Date/Time	
Sampled By: [signature] @	0830 11/18/22	Total Cost:
Relinquished By: R Cunningham AAL	11/17/22 16:00	
Received By: [signature]	11/18/22 0105	P.I.F.
Received @ Lab By: [signature] 11/18 0500		

R. Manley 11/18/22 0505

R. Manley 11/18/22 0510

Sam Oldfield 11/18/22 06:50