



# Site Management Periodic Review Report and IC/EC Certification (2025)

Penn Yan Jackson Street Former MGP (Site - 862008)  
Penn Yan, New York

**Submitted to:**

New York State Department of Environmental Conservation  
Division of Environmental Remediation (BURC)  
625 Broadway  
Albany, New York

**Submitted by:**

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Rochester, New York 14608

**On behalf of:**

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## **1. Introduction and Site Overview**

### **1.1 Introduction**

NEU-VELLE, LLC (NEU-VELLE) is submitting this Periodic Review Report (PRR) for 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 PRR was prepared in accordance with Section 6.3(b) of DER-10 Technical Guidance for Site Investigation and Remediation to document implementation and compliance with the Revised Site Management Plan (SMP) (NEU-VELLE, 2023), which was accepted by the NYSDEC on April 9, 2025.

### **1.2 Site Location and History**

The Site is a former MGP located on Linden Street (formerly known as Jackson Street) in the Village of Penn Yan, New York (see **Figure 1**). The Site is 0.7 acres and is comprised of three separately-listed parcels. Parcel 1 is located on the northern half of the property and is bordered by a residential property to the north and Parcel 2 to the South. Parcel 2 is bordered to the South by the Yates County Correctional Facility. Both parcels are bordered to the East by Jacobs Brook and to the West by Linden Street. Parcel 3 is situated along Linden Street between Parcels 1 and 2 and contains a storage garage and paved driveway. Parcels 1 and 2 are owned by NYSEG. Parcel 3 is owned by a private individual residing on Linden Street. A Site plan is provided as **Figure 2**.

The Site was utilized as a manufactured gas plant (MGP) from 1860 to approximately 1903. Following the cessation of MGP operations at the site, the buildings which housed the MGP were demolished by 1909. These buildings included the gas holder foundation, the former gas purifier house, retort, coal storage area, machine shop area, naphtha storage tank area, and refuse wells. The property subsequently was converted to residential use. NYSEG purchased the property, consisting of three separate parcels between 1936 and 1994. In 1994 NYSEG razed the dwelling, and currently only a privately owned garage and a NYSEG storage building occupy the Site.

### **1.3 Regulatory Setting**

NYSEG conducted a Task 1 Site Screening Investigation in 1991 and a Task 2 Site Investigation in 1993. During the Task 2 Investigation a small area containing purifier waste was observed and removed by hand excavation and off-Site disposal. Subsequent soil sampling in that area showed no remaining contamination.

The NYSDEC and NYSEG entered into a Consent Order on March 30, 1994 to investigate and, where necessary, remediate a group of 33 former MGP sites statewide. In December 2016 the Consent Order was amended and restated and is known as the Amended and Restated Multi-Site Consent

Order. It retains the index number as the original Consent Order. The Jackson Street Site is one of the sites included in the consent order. The Order obligates NYSEG to implement a full remedial program.

Site and remedial investigations conducted between 1991 and 2009 identified impacts to subsurface soil and groundwater associated with MGP waste. Benzene, toluene, ethylbenzene and xylenes (BTEX), polynuclear aromatic hydrocarbons (PAHs), coal tar, and select metals as well as total cyanide, were identified as the contaminants of concern.

NYSDEC, in consultation with the New York State Department of Health (NYSDOH), selected the Site remedy in the Record of Decision (ROD) for the Site (NYSDEC, 2011). The selected remedy included the following:

- Maintenance of the engineering controls (EC) that include the existing site cover (grass/turf) and two storage buildings;
- Imposition of institutional controls (IC) in the form of an environmental easement;
- Development and implementation of an SMP; and
- Periodic certification of institutional and engineering controls

Post-remediation groundwater monitoring, which includes the monitoring of the continuing natural attenuation remedy for the Site. The groundwater contaminants detected at the Site are subject to decay by ordinary soil bacteria. Dissolved oxygen concentrations are sufficiently high to support the growth of these bacteria, and it appears that the degradation process is taking place. No off-Site migration of contaminated groundwater has been identified.

The selected remedy was chosen to address impacts to soil at concentrations greater than 6 NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives (SCOs); Protection of Public Health: Commercial. The executed remedy is discussed in Section 2.

## **2. Effectiveness of Remedial Program**

The selected remedy as described above includes the development and implementation of an SMP to address long-term management of on-Site contaminants and includes plans for ICs and ECs, Site monitoring and maintenance, and periodic reporting. The Site SMP, developed by AMEC Geomatrix, Inc., was approved by the NYSDEC in December 2011. The SMP was revised by NEU-VELLE, LLC. in 2023, and subsequently approved by the NYSDEC on April 9, 2025, to reflect the addition of a multi-media sampling program in Jacobs Brook, adjacent to the Site.

As part of the SMP development, an Environmental Easement granted to the NYSDEC, and recorded with the Yates County Clerk, requires compliance with this SMP and all ECs and ICs placed on the

Site. The metes and bounds of the Controlled Property are provided as Appendix A to the SMP and depicts the property lines subject to the Environmental Easement.

The SMP was prepared to maintain and manage the residual groundwater impacts in a condition that is protective of public health and the environment for its intended use in accordance with New York Environmental Conservation Law (ECL) Article 71, Title 36. The SMP provides a detailed description of procedures required to manage residual groundwater impacts at the Site, including:

1. Implementation of an Environmental Easement;
2. Groundwater monitoring;
3. Sediment and pore water monitoring adjacent to the Site in Jacobs Brook; and
4. Periodic inspections and reporting of the institutional controls/engineering controls (IC/ECs). Please note that the residual impacts in groundwater continue to undergo a monitored natural attenuation (MNA) remedy with periodic groundwater monitoring.

### **3. Compliance**

#### **3.1 Engineering Controls**

The Site remedy does not rely on any mechanical or passive systems or barriers to contain, stabilize or restrict the movement of residual contaminants or on any systems such as sub-slab depressurization systems or air sparging/soil vapor extraction systems to protect public health and the environment. The residual impacts (i.e., constituents of concern) in soil and groundwater are being remedied by MNA and monitoring will continue until the groundwater standards for the respective constituents of concern are met and the Site received NYSDEC approval to cease monitoring.

A cover system, consisting of thick, well-maintained turf currently exists and will be maintained to allow for the current use of the site. In addition to turf, two storage buildings cover the surface of the site. If the site is redeveloped in the future, an equivalent cover system will be established which will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). In areas where such a soil cover is required, it will consist of a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d). The Excavation Work Plan that appears in Appendix B of the SMP outlines the procedures required to be implemented in the event work activities penetrate surface soils. Procedures for the inspection and maintenance of the ground surface cover are provided in the SMP.

The cover was observed during a Site visit completed by NEU-VELLE on April 24, 2025, as part of the preparation of this Report. The integrity of the cover and changes, if any, are noted during these events. The Site cover was found to be in good condition with no deficiencies noted during the April 24, 2025, Site inspection. NEU-VELLE's observations are documented in the Site Inspection Form and photographic log provided as **Attachment B**.

The existing groundwater monitoring well network was also inspected and found in the same condition as the previous inspection reported in the previous PRR. The recommendations of the monitoring well inspection report have not yet been implemented as of the submittal of this PRR; however, NYSEG plans to implement any repairs necessary to maintain the monitoring well network for future sampling events.

### **3.2 Institutional Controls**

The ICs for the Site, as detailed in the SMP, are as follows:

- implement, maintain and monitor the ECs;
- prevent future exposure to contamination by controlling disturbances of the subsurface contamination; and,
- limit the use and development of the Site for non-residential use only.

Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under the SMP. These ICs are:

- Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs on the Site must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater monitoring must be performed as defined in this SMP; and
- Data and information pertinent to Site Management of the Site must be reported at the frequency and in a manner defined in this SMP.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The Site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Restrictions that apply to the three parcels comprising the Site are:

- Imposition of an IC in the form of an environmental easement that:
  - (a) requires the Site owner (NYSEG) to complete and submit to the NYSDEC a periodic certification of ICs and ECs in accordance with Part 375-1.8(h)(3);
  - (b) allows the use and development of the Site for commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
  - (c) restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDEC, NYSDOH or County DOH;
  - (d) prohibits agriculture or vegetable gardens on the Site; and
  - (e) requires compliance with the NYSDEC-approved SMP.
- The Site owner will submit to NYSDEC a written statement that certifies, under penalty of perjury, that:
  - (a) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and,
  - (b) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.

NYSDEC retains the right to access such controlled property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

The SMP details a Groundwater Management Plan and Soil Management Plan to provide procedures for the protection of workers, public health, and the environment during future work at the Site.

Implementation of the Soil and Groundwater Management Plans has not been required at this time. However, should subsurface work occur at the Site, NYSEG will comply with the requirements of the plans.

Additionally, the SMP includes a Proposed Post-Remediation Groundwater Monitoring Work Plan (Appendix C to the SMP), which details the procedures for periodic sampling of the monitoring wells at the Site. The wells are also inspected and maintained prior to each sampling event so that they remain suitable for this purpose.

Periodic groundwater monitoring was initiated in December 2021 following discussions between NYSEG and the NYSDEC and the receipt of the NYSDEC Corrective Measures and Reminder Notice dated November 18, 2021. The third (3<sup>rd</sup>) Post-Remediation Groundwater Monitoring sampling event was performed in August of 2024 and the findings were presented in the Third (3<sup>rd</sup>) Post-

Remediation Groundwater Monitoring Report, dated May 9, 2025. A summary of cumulative groundwater sample analytical results is provided as **Table 1**.

The periodic (every 15 months) GWMP sampling will continue as described in the SMP (the next groundwater sampling event is scheduled for November 2025) and will continue to assess the groundwater quality beneath the Site.

NYSEG also performed a multimedia (surface water, pore water, and sediment) sampling event of Jacobs Brook in November 2022 at the request of the NYSDEC. The purpose of this sampling event was to evaluate if Site contaminants in groundwater were migrating downgradient and off-Site to the adjacent Jacobs Brook. Findings of this sampling event were presented in a letter report to the NYSDEC dated April 2023 and did not present clear evidence of off-Site migration of on-Site contaminants. Summaries of cumulative pore water, surface water, and sediment sample analytical results are provided as **Table 2**, **Table 3**, and **Table 4**, respectively. NYSEG will continue to perform this multimedia sampling of Jacobs Brook on a three-years frequency, with the next sampling event occurring in the fall of 2025.

#### **4. Conclusions and Recommendations**

NYSEG is currently in compliance with the SMP, which includes implementation of the Environmental Easement, active post-remediation groundwater monitoring, and maintenance and implementation of the IC/ECs. Continued compliance with the SMP ensures that the remedy will continue to effectively protect public health and the environment by managing residual MGP-impacts at the Site. Completed IC/EC Certification Forms are included as **Attachment A**.

No changes are recommended to the Environmental Easement at this time.

Periodic inspections of the Site cover and monitoring well network, as well as the annual Periodic Review Report (PRR), will continue on an annual basis as described in the SMP.



**Attachment A**  
**Institutional Control/Engineering Control Certification Forms**





Enclosure 2  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



**Site Details**

**Box 1**

**Site No.**            **862008**

**Site Name** NYSEG - Penn Yan Jackson St. MGP

Site Address: Linden St      Zip Code: 14527

City/Town: Penn Yan

County: Yates

Site Acreage: 0.670

Reporting Period: April 12, 2024 to April 12, 2025

YES    NO

1. Is the information above correct?

☒      ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐      ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐      ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐      ☒

**If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.**

5. Is the site currently undergoing development?

☐      ☒

**Box 2**

YES    NO

6. Is the current site use consistent with the use(s) listed below?  
Commercial and Industrial

☒      ☐

7. Are all ICs in place and functioning as designed?

☒      ☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and  
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

\_\_\_\_\_  
Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
Date

**Description of Institutional Controls**ParcelOwnerInstitutional Control**49.59-1-2**

Michael Schrouder

Ground Water Use Restriction  
Landuse Restriction  
Site Management Plan**49.59-1-4**

NYSEG

Ground Water Use Restriction  
Soil Management Plan  
Landuse Restriction  
Monitoring Plan  
Site Management Plan  
O&M Plan  
IC/EC Plan**49.59-1-5**

NYSEG

Ground Water Use Restriction  
Soil Management Plan  
Landuse Restriction  
Monitoring Plan  
Site Management Plan  
O&M Plan  
IC/EC Plan**Description of Engineering Controls**ParcelEngineering Control**49.59-1-4**

Cover System

**49.59-1-5**

Cover System

### Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and  
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

\_\_\_\_\_  
Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
Date

IC CERTIFICATIONS  
SITE NO. V00073

Box 6

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Albert G. Lyons, Jr. at Lyons Engineering  
print name 10 Jones Ave  
print business address Rochester, NY 14608

am certifying as Owner Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Albert G. Lyons, Jr.  
Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

5/9/25

Date

EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Albert G. Lyons, Jr at Lyons Engineering  
print name 10 Jones Ave  
Rochester, NY 14608  
print business address

am certifying as a for the Owner

(Owner or Remedial Party)

Albert G. Lyons, Jr  
Signature of, for the Owner or Remedial Party,  
Rendering Certification



Stamp  
(Required for PE)

5/9/25  
Date

**Attachment B**  
**Site Inspection form and Photograph Log**



**Table 2**  
**SOIL COVER INSPECTION AND MAINTENANCE LOG**  
**JACKSON STREET FORMER MGP SITE**  
**Site Management Plan**

[illegible]



**Site Inspection Photographs**  
**NYSEG Jackson St Former MGP Site, Penn Yan, NY – April 24, 2025**

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**Southern side of property from Linden Street - viewing east**



**South side of property facing towards Linden Street – viewing west**



**Site Inspection Photographs**  
**NYSEG Jackson St Former MGP Site, Penn Yan, NY – April 24, 2025**

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**West side of property and ROW - viewing south**



**Northwest corner of property looking across north portion of property - viewing east**



**Site Inspection Photographs**  
**NYSEG Jackson St Former MGP Site, Penn Yan, NY – April 24, 2025**

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**North portion of property - viewing west**



**Central portion of property - viewing southeast**



## **Site Inspection Photographs**

**NYSEG Jackson St Former MGP Site, Penn Yan, NY – April 24, 2025**

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**NYSEG garage structure - viewing northeast**



**Back (east) side of NYSEG garage structure - viewing southwest**



**Site Inspection Photographs**  
**NYSEG Jackson St Former MGP Site, Penn Yan, NY – April 24, 2025**

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**MW4S and 4D area – viewing east**



**Jacob's creek bank – viewing south**



**Site Inspection Photographs**  
**NYSEG Jackson St Former MGP Site, Penn Yan, NY – April 24, 2025**

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**Jacob's creek bank – viewing northeast**

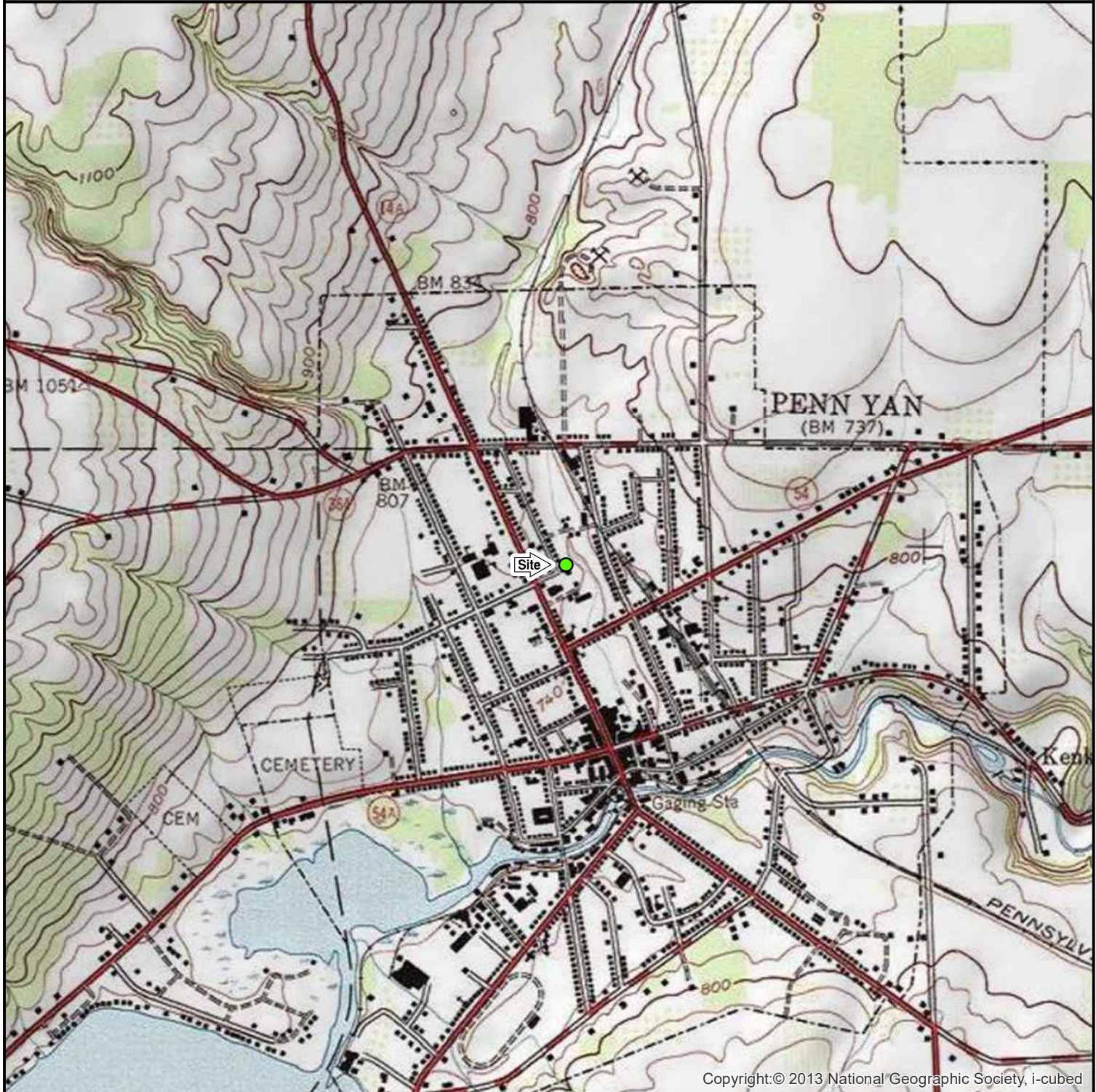


**MW-2D area – viewing east**

**Figure 1**  
**Site Location**



FIGURE 1



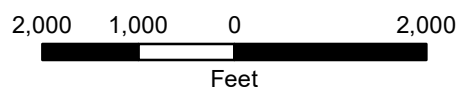
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NEW YORK STATE ELECTRIC & GAS CORPORATION  
JACKSON STREET FORMER MGP SITE  
PENN YAN, NEW YORK

## SITE LOCATION

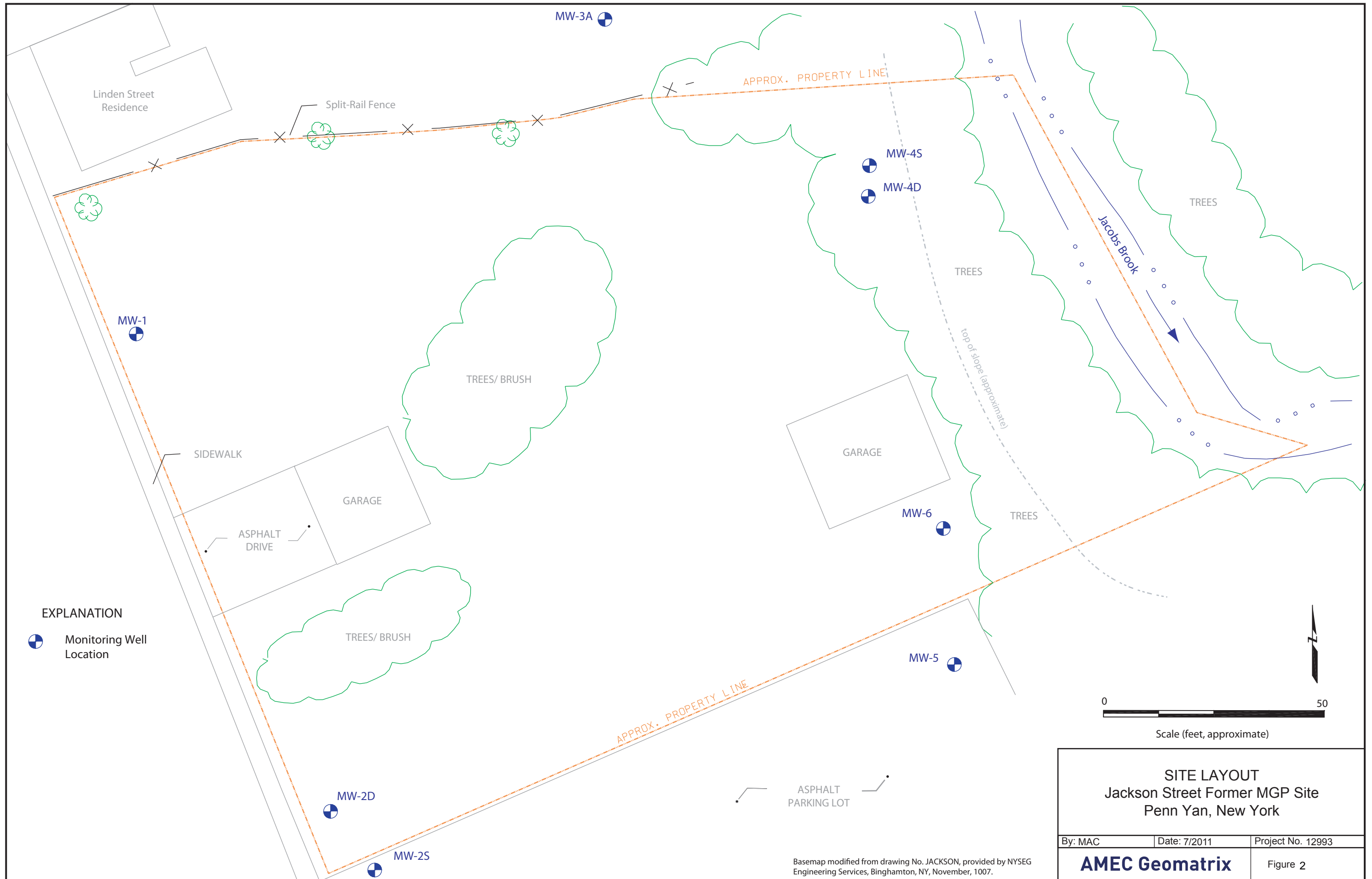
MAY 2025





**Figure 2**  
**Site Plan**  
**(Adapted from SMP)**

Put network path and drawing No. information here



**Tables**

Table 1  
Groundwater Sample Analytical Results

Sample Location Sample Date Sample Identification			MW-1 12/3/2021 PY-MW-1-120321		MW-1 5/3/2023 MW-1-050323		MW-1 8/21/2024 PY_MW-1_082124		MW-2D 12/2/2021 PY-MW-2D-120221		MW-2D 5/4/2023 MW-2D-050423		MW-2D 8/21/2024 PY_MW-2D_082124		MW-2S 12/2/2021 PY-MW-2S-120221		MW-2S 5/4/2023 MW-2S-050423		MW-2S 8/21/2024 PY_MW-2S_082124		MW-3A 12/6/2021 PY-MW-3A-120621		MW-3A 5/8/2023 MW-3A-050823		MW-3A 8/23/2024 PY_MW-3A_082324	
Analyte	TOGS 1.1.1 Groundwater SCG	Units	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit
BTEX																										
Benzene	1	µg/L	13	1.0	5.4	0.50	ND	0.50	ND	1.0	ND	0.50	ND	0.50	ND	1.0	ND	0.50	ND	0.50	81	1.0	100	0.50	52	0.50
Ethylbenzene	5	µg/L	ND	1.0	ND	2.5	ND	2.5	ND	1.0	ND	2.5	ND	2.5	ND	1.0	ND	2.5	ND	2.5	22	1.0	28	2.5	18	2.5
Toluene	5	µg/L	ND	1.0	ND	2.5	ND	2.5	ND	1.0	ND	2.5	ND	2.5	ND	1.0	ND	2.5	ND	2.5	0.73 J	1.0	0.72 J	2.5	ND	2.5
Xylenes, Total	5	µg/L	ND	2.0	ND	2.5	ND	2.5	ND	F1 2.0	ND	2.5	ND	2.5	ND	2.0	ND	2.5	ND	2.5	14	2.0	5.6 J	2.5	2.21 J	2.5
PAHs																										
Acenaphthene	20	µg/L	ND	0.54	ND	0.10	ND	0.10	ND	0.49	ND	0.10	ND	0.10	ND	0.53	ND	0.10	ND	0.10	ND	0.53	0.01 J	0.10	ND	0.10
Acenaphthylene	NS	µg/L	ND	0.32	ND	0.10	ND	0.10	ND	0.29	ND	0.10	ND	0.10	ND	0.32	ND	0.10	ND	0.10	0.16 J	0.32	0.21	0.10	0.08 J	0.10
Anthracene	50	µg/L	ND	0.54	ND	0.10	ND	0.10	ND	0.49	ND	0.10	ND	0.10	ND	0.53	ND	0.10	ND	0.10	ND	0.53	ND	0.10	0.05 J	0.10
Benzo(a)anthracene	0.002	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	0.02 J	0.10	ND	0.10
Benzo(a)pyrene	ND	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10
Benzo(b)fluoranthene	0.002	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	0.01 J	0.10	0.04 J	0.10	NT	NT	ND	0.10	ND	0.10
Benzo(k)fluoranthene	0.002	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10
Benzo(ghi)perylene	NS	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	0.03 J	0.10	NT	NT	ND	0.10	ND	0.10
Chrysene	0.002	µg/L	ND	0.54	ND	0.10	ND	0.10	ND	F1 F2 0.49	ND	0.10	ND	0.10	ND	0.53	ND	0.10	ND	0.10	ND	0.53	ND	0.10	ND	0.10
Dibenzo(a,h)anthracene	NS	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10
Fluoranthene	50	µg/L	ND	0.54	ND	0.10	ND	0.10	ND	0.49	ND	0.10	ND	0.10	0.11 J	0.53	0.03 J	0.10	0.06 J	0.10	ND	0.53	ND	0.10	0.04 J	0.10
Fluorene	50	µg/L	ND	0.54	ND	0.10	ND	0.10	ND	0.49	ND	0.10	ND	0.10	ND	0.53	ND	0.10	ND	0.10	ND	0.53	ND	0.10	0.06 J	0.10
Indeno(1,2,3-cd) pyrene	0.002	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	0.03 J	0.10	NT	NT	ND	0.10	ND	0.10
Naphthalene	10	µg/L	0.35 J	1.1	0.19	0.10	ND	0.10	ND	0.97	ND	0.10	ND	0.10	ND	1.1	ND	0.10	0.08 J	0.10	2.9	1.1	0.66	0.10	0.24	0.10
Phenanthrene	50	µg/L	ND	0.22	ND	0.10	ND	0.10	ND	0.19	ND	0.10	ND	0.10	ND	0.21	ND	0.10	ND	0.10	ND	0.21	ND	0.10	0.14	0.10
Pyrene	50	µg/L	ND	0.54	ND	0.10	ND	0.10	ND	0.49	ND	0.10	ND	0.10	ND	0.53	0.02 J	0.10	0.05 J	0.10	ND	0.53	ND	0.10	ND	0.10
2-Chloronaphthalene	10	µg/L	NT	NT	ND	0.20	ND	0.20	NT	NT	ND	0.20	ND	0.20	NT	NT	ND	0.20	ND	0.20	NT	NT	ND	0.20	ND	0.20
2-Methylnaphthalene	NS	µg/L	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	ND	0.10	NT	NT	ND	0.10	0.06 J	0.10
Cyanide																										
Cyanide, Total	0.2	mg/L	0.015	0.010	ND	0.005	0.001 J	0.005	0.0074 J	0.010	0.002 J	0.005	0.003 J	0.005	ND	0.010	ND	0.005	ND	0.005	0.025	0.010	0.036	0.005	0.030	0.005

- Notes:
- µg/L = micrograms per liter
  - mg/L = milligrams per liter
  - "NS" = no standard, "ND" = non-detect, and "NT" = not tested
  - Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
  - Bold Sample result** = compound was detected.
  - Gray shading indicates the sample result is above the TOGS 1.1.1 Standards, Criteria and Guidance Value.**
  - "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"
  - "F1" is a laboratory data qualifier indicating "MS and/or MSD recovery exceeds control limits"
  - "F2" is a laboratory data qualifier indicating "MS/MSD RPD exceeds control limits"

Table 1  
Groundwater Sample Analytical Results

Sample Location Sample Date Sample Identification			MW-4D 12/4/2021 PY-MW-4D-120421		MW-4D 4/28/2023 MW-4D-042823		DUPLICATE DUP-042823		MW-4D 8/22/2024 PY_MW-4D_082224		MW-4S 12/4/2021 PY-MW-4S-120421		MW-4S 4/28/2023 MW-4S-042823		MW-4S 8/23/2024 PY_MW-4S_082324		DUPLICATE PY_DUP-082324		MW-5 5/5/2023 MW-5-050523		MW-5 8/22/2024 PY_MW-5_082224		MW-6 12/3/2021 PY-MW-6-120321		DUPLICATE PY-DUP-120321		MW-6 5/5/2023 MW-6-050523		MW-6 8/22/2024 PY_MW-6_082224	
Analyte	TOGS 1.1.1 Groundwater SCG	Units	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit
BTEX																														
Benzene	1	µg/L	ND	1.0	ND	0.5	ND	0.5	ND	0.5	1,600	40	380	5	910	5	940	5	ND	0.50	ND	0.50	ND	1.0	ND	1.0	ND	0.50	ND	0.50
Ethylbenzene	5	µg/L	ND	1.0	ND	2.5	ND	2.5	ND	2.5	480	40	110	25	300	25	310	25	ND	2.5	ND	2.5	ND	1.0	ND	1.0	ND	2.5	ND	2.5
Toluene	5	µg/L	ND	1.0	ND	2.5	ND	2.5	ND	2.5	91	40	22	25	62	25	64	25	ND	2.5	ND	2.5	ND	1.0	ND	1.0	ND	2.5	ND	2.5
Xylenes, Total	5	µg/L	ND	2.0	ND	2.5	ND	2.5	ND	2.5	800	80	230	25	580	25	600	25	ND	2.5	ND	2.5	ND	2.0	ND	2.0	ND	2.5	ND	2.5
PAHs																														
Acenaphthene	20	µg/L	ND	0.53	ND	0.10	0.02	0.10	ND	0.10	13	2.5	5	1.00	7.0	0.10	7.2	0.10	ND	0.10	ND	0.10	ND	0.48	ND	0.49	ND	0.10	ND	0.10
Acenaphthylene	NS	µg/L	ND	0.32	0.07	0.10	0.11	0.10	ND	0.10	64	1.5	35	1.00	35	0.10	37	0.10	ND	0.10	ND	0.10	ND	0.29	ND	0.29	ND	0.10	ND	0.10
Anthracene	50	µg/L	ND	0.53	0.08	0.10	0.13	0.10	ND	0.10	6.3	2.5	3.2	1.00	3.6	0.10	3.9	0.10	ND	0.10	ND	0.10	ND	0.48	ND	0.49	ND	0.10	ND	0.10
Benzo(a)anthracene	0.002	µg/L	NT	NT	0.11	0.10	0.18	0.10	ND	0.10	NT	NT	0.45	1.00	0.07	0.10	0.09	0.10	0.03	0.10	0.16	0.10	NT	NT	NT	NT	0.03	0.10	ND	0.10
Benzo(a)pyrene	ND	µg/L	NT	NT	0.14	0.10	0.24	0.10	ND	0.10	NT	NT	0.25	1.00	0.06	0.10	0.07	0.10	0.04	0.10	0.39	0.10	NT	NT	NT	NT	ND	0.10	ND	0.10
Benzo(b)fluoranthene	0.002	µg/L	NT	NT	0.11	0.10	0.18	0.10	ND	0.10	NT	NT	0.20	1.00	0.04	0.10	0.06	0.10	0.07	0.10	0.61	0.10	NT	NT	NT	NT	0.01	0.10	ND	0.10
Benzo(k)fluoranthene	0.002	µg/L	NT	NT	0.03	0.10	0.05	0.10	ND	0.10	NT	NT	0.09	1.00	ND	0.10	ND	0.10	0.03	0.10	0.23	0.10	NT	NT	NT	NT	ND	0.10	ND	0.10
Benzo(ghi)perylene	NS	µg/L	NT	NT	0.07	0.10	0.12	0.10	ND	0.10	NT	NT	ND	1.00	ND	0.10	0.04	0.10	0.05	0.10	0.39	0.10	NT	NT	NT	NT	ND	0.10	ND	0.10
Chrysene	0.002	µg/L	ND	0.53	0.09	0.10	0.15	0.10	ND	0.10	ND	2.5	0.23	1.00	0.05	0.10	0.05	0.10	0.05	0.10	0.43	0.10	ND	0.48	ND	0.49	0.01	0.10	ND	0.10
Dibenzo(a,h)anthracene	NS	µg/L	NT	NT	0.01	0.10	0.02	0.10	ND	0.10	NT	NT	ND	1.00	ND	0.10	ND	0.10	ND	0.10	0.07	0.10	NT	NT	NT	NT	ND	0.10	ND	0.10
Fluoranthene	50	µg/L	ND	0.53	0.15	0.10	0.26	0.10	ND	0.10	2.5	2.5	1.7	1.00	1.6	0.10	1.6	0.10	0.10	0.10	1.0	0.10	ND	0.48	ND	0.49	0.03	0.10	ND	0.10
Fluorene	50	µg/L	ND	0.53	0.04	0.10	0.08	0.10	ND	0.10	17	2.5	8	1.00	9.5	0.10	10	0.10	ND	0.10	0.03	0.10	ND	0.48	ND	0.49	ND	0.10	ND	0.10
Indeno(1,2,3-cd) pyrene	0.002	µg/L	NT	NT	0.06	0.10	0.09	0.10	ND	0.10	NT	NT	ND	1.00	ND	0.10	ND	0.10	0.05	0.10	0.37	0.10	NT	NT	NT	NT	ND	0.10	ND	0.10
Naphthalene	10	µg/L	0.67	1.1	0.47	0.1	0.56	0.10	0.05	0.10	2,600	400	1,400	5.0	860	2.00	860	2.00	ND	0.10	0.44	0.10	ND	0.95	ND	0.97	ND	0.10	0.05	0.10
Phenanthrene	50	µg/L	ND	0.21	0.24	0.10	0.39	0.10	ND	0.10	23	1.0	8.4	1.00	13	0.10	14	0.10	0.04	0.10	0.37	0.10	ND	0.19	ND	0.19	0.04	0.10	ND	0.10
Pyrene	50	µg/L	ND	0.53	0.22	0.10	0.37	0.10	ND	0.10	2.2	2.5	1.6	1.00	1.3	0.10	1.4	0.10	0.08	0.10	0.76	0.10	ND	0.48	ND	0.49	0.04	0.10	ND	0.10
2-Chloronaphthalene	10	µg/L	NT	NT	ND	0.20	ND	0.20	ND	0.20	NT	NT	ND	2.00	ND	0.20	ND	0.20	ND	0.20	ND	0.20	NT	NT	NT	NT	ND	0.20	ND	0.20
2-Methylnaphthalene	NS	µg/L	NT	NT	0.09	0.10	0.13	0.10	ND	0.10	NT	NT	74	1.00	89	2.00	87	2.00	ND	0.10	0.06	0.10	NT	NT	NT	NT	ND	0.10	ND	0.10
Cyanide																														
Cyanide, Total	0.2	mg/L	ND	0.010	0.003	0.005	ND	0.005	ND	0.005	0.083	0.010	2.05	0.025	0.083	0.005	0.086	0.005	0.001	0.005	ND	0.005	ND	0.010	ND	0.010	0.237	0.005	ND	0.005

- Notes:
- 1. µg/L = micrograms per liter
  - 2. mg/L = milligrams per liter
  - 3. "NS" = no standard, "ND" = non-detect, and "NT" = not tested
  - 4. Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
  - 5. **Bold Sample result** = compound was detected.
  - 6. **Gray shading indicates the sample result is above the TOGS 1.1.1 Standards, Criteria and Guidance Value.**
  - 7. "J" is a laboratory data qualifier indicating "Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value"
  - 8. "F1" is a laboratory data qualifier indicating "MS and/or MSD recovery exceeds control limits"
  - 9. "F2" is a laboratory data qualifier indicating "MS/MSD RPD exceeds control limits"

Table 2  
Pore Water Sample Analytical Results

Sample Location Sample Date Sample Identification			PORE-DWN-04 11/16/2022 PORE-DWN-04-111622	PORE-DWN-05 11/16/2022 PORE-DWN-05-111622	PORE-DWN-06 11/16/2022 PORE-DWN-06-111622
Analyte	TOGS 1.1.1 Groundwater SCG	Units	Result	Result	Result
<b>BTEX</b>					
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
<b>PAHs</b>					
Acenaphthene	20	µg/L	<b>6.27</b>	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 3  
Surface Water Sample Analytical Results

Sample Location Sample Date			SW-DWN-04 11/16/2022	SW-DWN-05 11/16/2022	SW-DWN-06 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
<b>BTEX</b>					
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
<b>PAHs</b>					
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(W)
5. RI Results for surface water sampling were ND for BTEX and PAHs.

Table 4  
Sediment Sample Analytical Results

Sample Location Sample Date Sample Identification				SED-DWN-1 9/27/2007 SED-DWNSTRM1	SED-DWN-04 11/16/2022 SED-DWN-04-111622	SED-DWN-2 9/27/2007 SED-DWNSTRM2	SED-DWN-05 11/16/2022 SED-DWN-05-111622	SED-DWN-3 9/27/2007 SED-DWNSTRM3	SED-DWN-06 11/16/2022 SED-DWN-06-111622
Analyte	Freshwater Class A SGVs*	Units	(Upstream) Range of RI Sediment Results	Result	Result	Result	Result	Result	Result
<b>BTEX</b> (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
<b>PAHs</b> (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
<b>Other Testing</b>									
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"