

March 9, 2022

Mr. Scott Deyette  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, BURC  
625 Broadway  
Albany, New York 12233-7014

**Re:           *National Grid Ogdensburg Former MGP Site  
NYSDEC Site No. 645053  
10 King Street  
Ogdensburg, New York  
2021 Periodic Review Report***

Dear Mr. Deyette:

Enclosed for your review is the 2021 Periodic Review Report (PRR) for the National Grid Ogdensburg Former MGP Site. The PRR pertains to the period from February 17, 2021 through February 17, 2022 and includes a brief report and Institutional Controls/Engineering Controls (IC/EC) Certification Form.

Please feel free to contact me at 315.428.5652 if you have any questions.

Sincerely,



for SPS  
Steven P. Stucker, C.P.G.  
Lead Environmental Engineer

## **I. Introduction**

### **A. Brief Site Summary –**

The Former Ogdensburg Manufactured Gas Plant (MGP) Site (the Site) is located on an approximate 0.958 acre lot, with the address of 10 King Street in Ogdensburg, New York (refer to Figure 1 Site Location Map). The Site is owned by the St. Lawrence Gas Company. Manufactured gas was produced at the Site from approximately 1854 until at least 1930 using the coal carbonization process. The majority of the buildings and above-grade structures were removed by 1949; however, several subsurface foundations and piping were left in place. In addition to the former MGP, the Site was the location of a quarry from approximately 1850 to after 1865, and was used for the storage of propane gas tanks from before 1945 until sometime before 1997.

An investigation of the Site began in 2003 with the site characterization (SC), the remedial investigation (RI), which was conducted between 2003 and 2009, and culminating in 2010 with the pre-design investigation (PDI). During these investigations, 76 soil borings were drilled, 22 monitoring wells were installed, 10 test pits were excavated, three soil vapor investigations were conducted, and more than 230 samples of environmental media were collected and analyzed. The results of the SC and RI were presented in the Remedial Investigation Report (RI Report; Arcadis 2009), and the results of the PDI were presented in the Pre-Design Investigation Summary Report (PDI Report; National Grid 2011). In March 2009, National Grid also conducted an investigation of the City of Ogdensburg's combined sewer system located downstream from the Site. The investigation was prompted by the findings of the utility evaluation conducted in October 2008 during the Phase III RI, which identified non-aqueous phase liquid (NAPL) in a sewer lateral that extended from the western portion of the Site, along the fence line, to one of the manholes in King Street. The results of the sewer investigation were presented in an April 10, 2009 memorandum to the NYSDEC (Arcadis 2009) and were summarized in the RI Report.

The site investigations identified impacted soils from MGP related activities, specifically coal tar and purifier waste. The constituents of concern (COCs) are primarily the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and xylenes (collectively, BTEX), the general class of semi-volatile organic compounds (SVOCs) known as polycyclic aromatic hydrocarbons (PAHs), and cyanide, all of which were found at the Site and the off-Site area.

- B. Remedial Program Effectiveness** – During the reporting period (February 17, 2021 to February 17, 2022) the long-term remedial objectives were met for the site.
- C. Remedial Program Compliance** - The major elements within the Institutional Control/Engineering Control(s) (IC/EC) Plan are in compliance.
- D. Remedial Program Recommendations** - It is recommended that no changes be made to the IC/EC Plan. It is recommended that an annual Periodic Review Report (PRR) be submitted. The next PRR submittal will cover the period February 17, 2022 to February 17, 2023.

## **II. Site Overview**

### **A. Site Location and Boundaries –**

The Site is located at 10 King Street in the City of Ogdensburg, County of St. Lawrence, New York (Figure 1 presents the site location map). The Site is an approximate 0.958-acre area bounded by King Street to the north, privately-owned properties to the south and west, a privately-owned property and a vacant National Grid-owned property to the east. Currently, the property is grass-covered, vacant and surrounded by a 6-foot chain link fence with barbed wire.

### **B. Regulatory History and Remedy Features –**

The Site was remediated between May and October 2013 in accordance with the *Voluntary Cleanup Program Decision Document* (NYSDEC 2010b) and *Final (100%) Remedial Design* (Arcadis 2012). This PRR is being completed in compliance with Section 6.3 of the NYSDEC – approved Site Management Plan (SMP) for the project. A Deed of Restrictions and Covenants (DCR) was placed on the property in February 2018 by the Owner, and is included in Appendix A of the SMP.

## **III. Evaluate Remedy Performance, Effectiveness, and Protectiveness**

- A. Evaluation of Remedy Performance** – Annual visual inspections of the cover system are conducted on the Site. The remedy performance has been effective in protecting the public.

## **IV. IC/EC Plan Compliance Report**

**A. IC/EC Requirements and Compliance**

**1. IC/EC Controls**

The ICs/ECs:

- **Soil Cover System and Fencing:** Annual site inspection of the cover system includes identification of any damage to the cover. The fence is also inspected for any damage. National Grid conducts quarterly inspections for internal security purposes. See Attachment 1 for the Site Inspection Forms.
- **Monitoring Wells Associated with Monitored Natural Attenuation (MNA):** Semi-annual groundwater sampling of the monitoring well system will be conducted, until either water quality is consistently below NYSDEC standards, or has become asymptotic at an acceptable level over an extended period.

**2. IC/EC Goals** - Each goal is being met and/or working effectively.

**3. IC/EC Corrective Measures** – No deficiencies were noted during the site inspections.

**4. IC/EC Conclusions/Recommendations** – The EC program is in compliance and there are no recommendations for the program at this time.

**5. IC/EC Certification** – Refer to PRR Form - Attachment 2 for the certification.

**V. Monitoring Plan Compliance Report** – The Annual Monitoring Report was submitted to the NYSDEC on February 1, 2022. See Attachment 3 for a copy of the Annual Monitoring Report.

**VI. Operation & Maintenance (O&M) Plan Compliance Report** – Not Applicable



**VII. Overall PRR Conclusions and Recommendations**

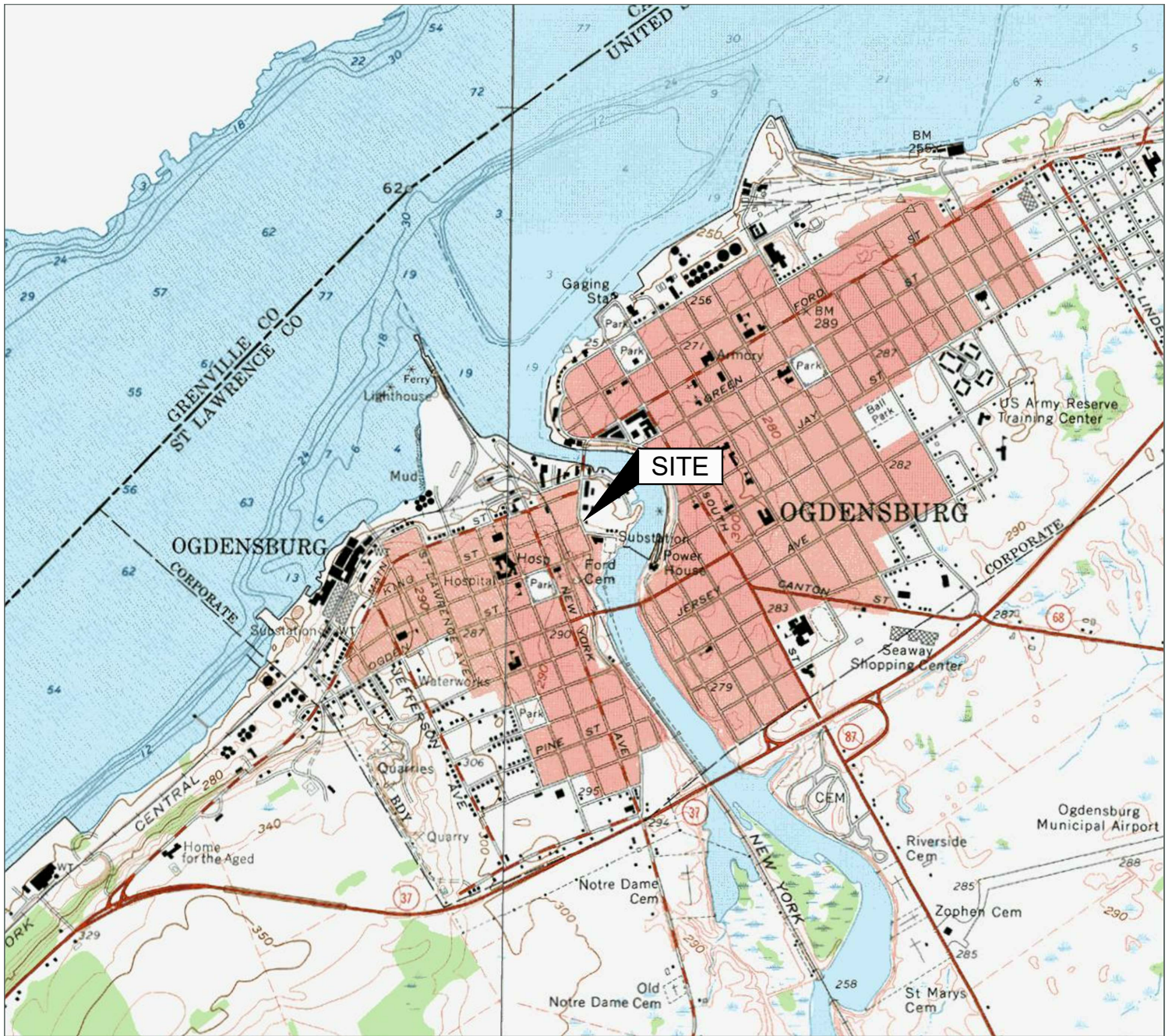
**A. Compliance with Site Management Plan (SMP)**

1. **Requirements** – All IC/EC Plan requirements were met during this reporting period.
2. **Exposure Pathways** – There are no new completed exposure pathways resulting in unacceptable risk.
3. **Proposed Plans and Schedule to Meet Compliance** – No plan proposed.

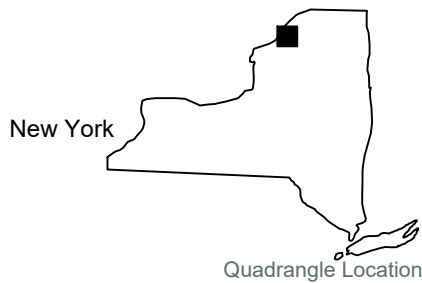
**B. Performance and Effectiveness of the Remedy** – The remedy as described in the Site Management Plan and executed by National Grid has been effective in meeting the program goals.

**C. Future PRR Submittals** – The frequency of PRR Submittals should remain annual. Therefore, the next PRR reporting period will cover February 17, 2022 through February 17, 2023.

**VIII. Additional Guidance** – Not needed.



Source:  
USGS 7.5 Minute Series  
Topographic Quadrangle, 1963  
Ogdensburg East, New York  
Contour Interval = 10'



Site Location Map

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

Date  
8/13/20  
Figure



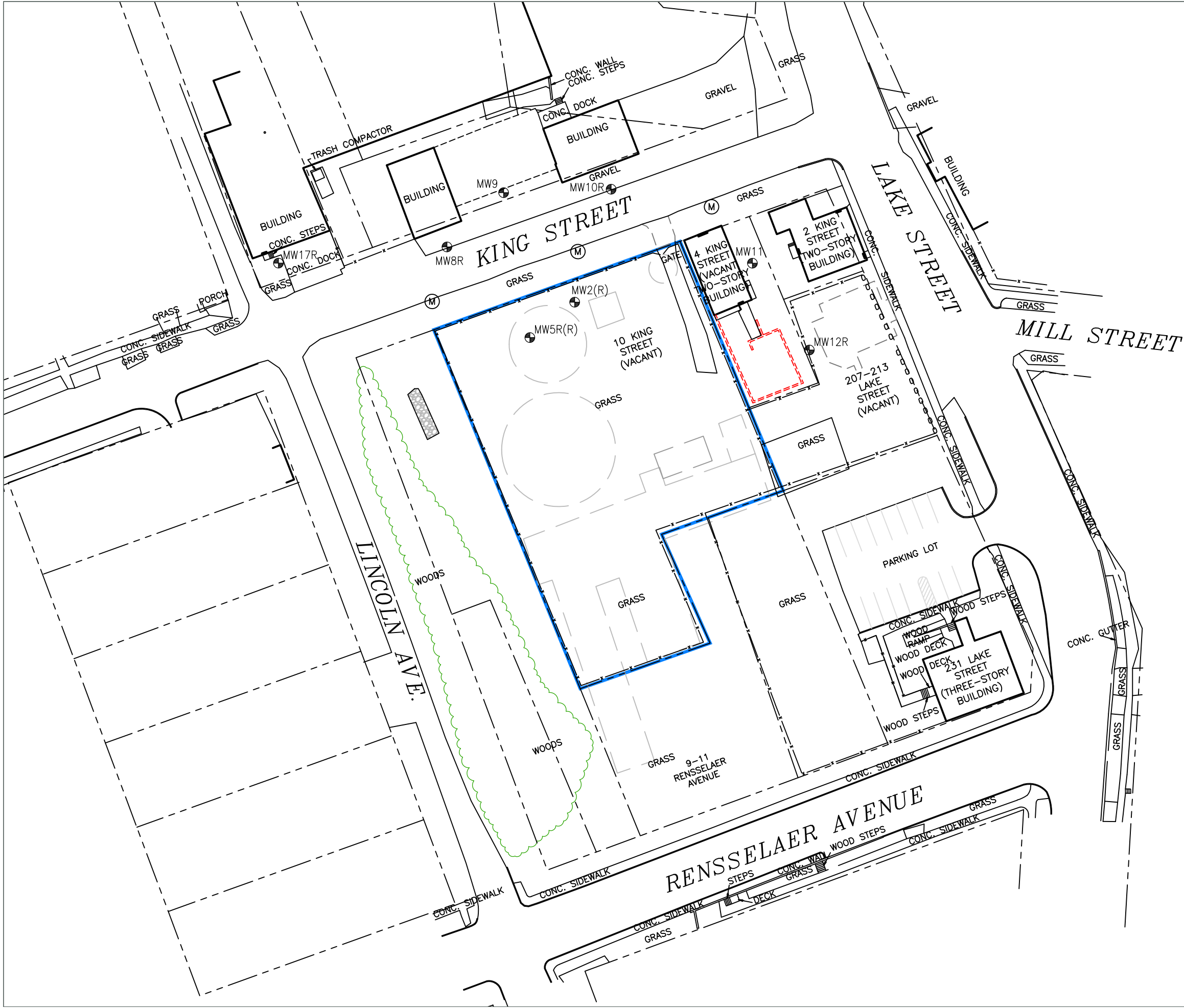
Scale In Feet

0 2000





M:\Graphics\0600-Syracuse\Misc\National Grid\Ogdensburg\Ogdensburg SM.dwg, B60 sm, WShea



# LEGEND

- PROPERTY BOUNDARY
- x - FENCE
- (M) UTILITY MANHOLE
- ⊕ MONITORING WELL

## Site Map

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

Date  
8/13/20  
Figure



Scale In Feet

0 60



Groundwater & Environmental Services, Inc.

**National Grid- Ogdensburg MGP Site (NYSDEC Site No. 645053)**

**Reporting Period – February 17, 2021 through February 17, 2022**

**REFERENCES**

Arcadis, 2018. “Site Management Plan, Ogdensburg (King Street) Non-Owned Former MGP Site”, September 2018.

**National Grid- Ogdensburg MGP Site (NYSDEC Site No. 645053)**

**Reporting Period – February 17, 2021 through February 17, 2022**

**Attachment 1: Site Inspection Forms**

**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 1/20/2022  
Technician: KL

NYSDEC Site No. V00479

Time: 10:30  
Weather: Sunny 2

Site Wide			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

Site Wide - SLG Responsible to Maintain			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS: winter

Soil Cover System			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

NG Owned Property on Lake Street - Not part of the SMP				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO		COMMENTS:
Have the lawns been mowed?	YES	NO		COMMENTS:
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO		COMMENTS:

Miscellaneous				
Evidence of Trespassing	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**

**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 10/20/2021  
Technician: KL

NYSDEC Site No. V00479

Time: 8:15  
Weather: Sunny 55

Site Wide			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS: Fence line clearing
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

Site Wide - SLG Responsible to Maintain			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS:

Soil Cover System			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

NG Owned Property on Lake Street - Not part of the SMP				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS: Fence line clearing	
Have the lawns been mowed?	YES	NO	COMMENTS:	
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO	COMMENTS:	

Miscellaneous				
Evidence of Trespassing	YES	NO	COMMENTS:	
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**

All wells are secure and in good condition.

**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 7/15/2021  
Technician: KL

NYSDEC Site No. V00479

Time: 8:00  
Weather: Sunny 72

<b>Site Wide</b>			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

<b>Site Wide - SLG Responsible to Maintain</b>			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS:

<b>Soil Cover System</b>			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

<b>NG Owned Property on Lake Street - Not part of the SMP</b>				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO		COMMENTS:
Have the lawns been mowed?	YES	NO		COMMENTS:
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO		COMMENTS:

<b>Miscellaneous</b>				
Evidence of Trespassing	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

<b>Site Monitoring Wells</b>		
<i>Well ID.</i>	<i>Location Secure</i>	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**

All wells are secure and in good condition.



**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 4/15/2021  
Technician: GE

NYSDEC Site No. V00479

Time: 9:00  
Weather: Cloudy 50's

Site Wide			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

Site Wide - SLG Responsible to Maintain			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS:

Soil Cover System			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

NG Owned Property on Lake Street - Not part of the SMP				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO		COMMENTS:
Have the lawns been mowed?	YES	NO		COMMENTS:
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO		COMMENTS:

Miscellaneous				
Evidence of Trespassing	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**

**National Grid- Ogdensburg MGP Site (NYSDEC Site No. 645053)**

**Reporting Period – February 17, 2021 through February 17, 2022**

**Attachment 2: PRR Certification Form**



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.**            **645053**

**Site Name** **NM - Ogdensburg MGP**

Site Address: 10 King St.            Zip Code: 13669  
City/Town: Ogdensburg  
County: St Lawrence  
Site Acreage: 0.958

Reporting Period: February 17, 2021 to February 17, 2022

- |  | YES                                 | NO                                  |
|--|-------------------------------------|-------------------------------------|
| 1. Is the information above correct?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 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?                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b> |                                     |                                     |
| 5. Is the site currently undergoing development?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Box 2**

- |  | YES                                 | NO                       |
|--|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?<br>Commercial and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs in place and functioning as designed?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**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**48.078-5-19**

St. Lawrence Gas Company

Ground Water Use Restriction  
Landuse Restriction  
Site Management Plan

Deed Restriction was filed on October 10, 2006. A Site Management Plan was approved on September 26, 2018 (see Site # 645053).

**48.078-5-25.1**

NMPC. d/b/a National Grid

Ground Water Use Restriction  
Landuse Restriction  
Site Management Plan

The Easement was recorded on March 22, 2018. The Site Management Plan was approved on September 26, 2018.

**Box 4****Description of Engineering Controls**ParcelEngineering Control**48.078-5-19**Cover System  
Fencing/Access Control

The Engineering controls for the site include a site cover system and fencing to control access. The property is restricted to commercial use and groundwater use is also prohibited.

**48.078-5-25.1**Cover System  
Fencing/Access Control

The Engineering controls in place include a cover system, restriction of land use to commercial, groundwater use prohibited, and site fencing to control access.

**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. 645053

Box 6

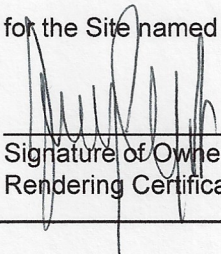
**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

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 Gerald Cresap, PE at 6780 Northern Blvd. Suite 100, East Syracuse, NY 13057,  
print name print business address

am certifying as \_\_\_\_\_ agent for National Grid \_\_\_\_\_ (Owner or Remedial Party)

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

  
Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

3-9-2022  
Date





## EC CERTIFICATIONS

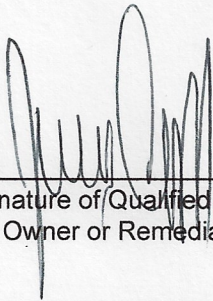
Box 7

### Qualified Environmental Professional 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 Gerald Cresap, PE at 6780 Northern Blvd. Suite 100, East Syracuse, NY 13057,  
print name print business address

am certifying as a Qualified Environmental Professional for the agent for National Grid  
(Owner or Remedial Party)



Signature of Qualified Environmental Professional for  
the Owner or Remedial Party, Rendering Certification Stamp  
(Required for PE)

3-9-2022  
Date

**National Grid- Ogdensburg MGP Site (NYSDEC Site No. 645053)**

**Reporting Period – February 17, 2021 through February 17, 2022**

**Attachment 3: Annual Monitoring Report**



February 1, 2022

Mr. Scott Deyette  
Project Manager  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, BURC  
625 Broadway  
Albany, New York 12233-7014

**RE: National Grid Former Manufactured Gas Plant Site  
10 King Street, Ogdensburg, New York  
Annual Groundwater Monitoring Report**

Dear Mr. Deyette:

Enclosed for your review is the Annual Groundwater Monitoring Report for the NG Ogdensburg MGP Site, for 2021.

Groundwater and Environmental Service, Inc., (GES) OM&M contractor for National Grid, conducts all long-term OM&M activities at the site. Semi-annual site inspections were conducted in 2021 (January, April, July, and October). The site is generally in good shape and in compliance. There were detection of BTEX and/or PAHs in all thirteen monitoring wells sampled.

If you have any questions, then please feel free to contact me at 315.428.5652.

Very truly yours,



for SPS

Steven P. Stucker, C.P.G.  
Lead Environmental Engineer  
National Grid

Cc: Devin T. Shay – Groundwater and Environmental Services, Inc.

National Grid

# Annual Groundwater Monitoring Report



National Grid Ogdensburg, Former MGP Site  
10 King Street, Ogdensburg, NY 13669

February 2022

Version 1





## **Annual Groundwater Monitoring Report**

National Grid Ogdensburg, Former MGP Site  
10 King Street  
Ogdensburg, NY 13669

Prepared for:  
National Grid  
300 Erie Boulevard West, C-1  
Syracuse, NY 13202

Prepared by:  
Groundwater & Environmental Services, Inc.  
6780 Northern Boulevard, Suite 100  
East Syracuse, NY 13057  
TEL: 800-220-3069  
[www.gesonline.com](http://www.gesonline.com)

GES Project:  
0603275.136690.221

Date:  
February 1, 2022

A handwritten signature in black ink, appearing to read "D. Shay", is positioned above a horizontal line.

---

Devin T. Shay, PG  
Program Manager / Principal Hydrogeologist

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- Figure 1 – Site Map
- Figure 2 – Groundwater Contour Map, April 15, 2021
- Figure 3 – Groundwater Contour Map, October 20, 2021
- Figure 4 – Groundwater Analytical Map, April 15, 2021
- Figure 5 – Groundwater Analytical Map, October 20, 2021

## Tables

- Table 1 – Groundwater Monitoring Well Gauging Data
- Table 2 – Groundwater Analytical Data

## Appendices

- Appendix A – Field Inspection Reports
- Appendix B – Well Sampling Field Data
- Appendix C – Data Usability Summary Report

## 1 Introduction

This Annual Groundwater Monitoring Report presents results from the activities conducted at the Ogdensburg former manufactured gas plant (MGP) site (the site) located in Ogdensburg, New York (the Site). A site map is presented on Figure 1. The work summarized herein has been conducted in accordance with the approved Site Management Plan (SMP) for the site, dated September 26, 2018.

A detailed discussion of the semi-annual monitoring activities and results is presented below.

## 2 Semi-Annual Groundwater Monitoring

### 2.1 Objectives

The objectives of the April and October 2021 groundwater monitoring activities were to:

- Obtain groundwater elevation data from monitoring wells in the vicinity of the site to evaluate groundwater flow direction and velocity, and compare the results with historical groundwater flow conditions.
- Obtain analytical data to assess potential changes in groundwater quality at the site and compare the results to the Class GA groundwater standards and guidance values presented in the New York State Department of Environmental Conservation (NYSDEC) document entitled, "Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and addended April 2000 and June 2004.

### 2.2 Groundwater Well Gauging

The April 15, 2021 and October 20, 2021 groundwater monitoring field activities were conducted by GES. Prior to collecting groundwater samples, static fluid level measurements were collected from MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, MW-14R, MW-15, MW-15RS, MW-17R, MW-19R, and MW-20R. Water levels were measured to the nearest 0.01 foot using an electronic oil-water interface probe to determine the depth from a surveyed mark on the top of the inner polyvinyl chloride (PVC) well casing to the groundwater within the well.

The fluid level measurements obtained from each monitoring well were converted to groundwater elevations using the surveyed well elevations. The calculated groundwater elevations for each monitoring well are listed in Table 1. Table 1 also includes groundwater elevation measurements obtained during previous groundwater monitoring events. A shallow groundwater potentiometric surface contour map developed based on the groundwater elevation measurements taken on April 15, 2021 and October 20, 2021, is included on Figure 2 and Figure 3, respectfully.

Groundwater generally flows to the north from the Site toward the St. Lawrence River. Groundwater elevations ranged from 248.29 feet above sea level (asl; well MW-15) to 257.29 feet asl (well MW-5R(R)). Field data from the gauging event is presented in Appendix B.

## 2.3 Groundwater Well Sampling and Analytical Results

Groundwater samples were collected by GES from 13 monitoring wells on April 15, 2021 and October 20, 2021 (including MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, MW-14R, MW-15, MW-15RS, MW-17R, MW-19R, and MW-20R). Low-flow sampling techniques were used to purge groundwater from each monitoring well prior to collecting groundwater samples. Field parameters (consisting of turbidity, temperature, pH, conductivity, oxidation reduction potential [ORP], and dissolved oxygen) were measured approximately every 5 to 10 minutes during well purging, and the depth to water was monitored throughout the pumping process to minimize drawdown within the well. Well purging activities continued at each well until the field parameters stabilized and the turbidity of the water in the wells was reduced to less than 50 nephelometric turbidity units (NTUs). Groundwater field data is presented in Appendix B.

Following purging, groundwater samples were collected. The groundwater samples were bottled and shipped to Pace Analytical for laboratory analysis for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX; EPA Method 8260C), Semi-Volatile Polycyclic Aromatic Hydrocarbons (PAHs; EPA Method 8270D), as well as total cyanide (EPA Method 9012B). Quality assurance/quality control (QA/QC) samples, including a field duplicate, matrix spike, and duplicate matrix spike were also submitted for laboratory analysis. The laboratory analytical results for the groundwater samples were reported using NYSDEC Analytical Services Protocol (ASP) Category B data deliverable packages to facilitate data validation.

Purge water generated during the sampling activities was collected in 5-gallon buckets and transferred into 55-gallon steel drums for characterization prior to offsite treatment/disposal in accordance with applicable regulations.

Analytical results from the laboratory analysis report are summarized in Table 2 and compared to the Class GA groundwater standards and guidance values presented in TOGS 1.1.1. VOC exceedances are bolded on Table 2 and further shown on Figures 4 and 5. The Data Usability Summary Report (DUSR) is included in Appendix C.

There were BTEX and/or PAH detections in all the monitoring wells sampled during the April and October 2021 sampling event. In April 2021, BTEX, acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene were detected above the regulatory criteria in one or more samples. Cyanide was detected in monitoring wells MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, and MW-15RS during the April 2021 event. In October 2021, BTEX, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene were detected above the regulatory criteria in one or more samples. Cyanide was detected in monitoring wells MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, and MW-15RS in October 2021. As shown on Table 2, BTEX, PAHs and total cyanide detected in groundwater during the April and October 2021 sampling events are consistent with results from previous sampling events.



### **3 Quarterly Site-Wide Inspections**

The quarterly site-wide inspections were conducted on January 21, April 15, July 15, and October 20, 2021. The Site Inspection Forms are presented in Appendix A. In general, the Site is in compliance.

## **4 Recommendations**

### **4.1 Recommendations**

At this time, National Grid recommends continuing the annual monitoring activities. The next annual groundwater sampling event would be in the spring 2022. Semi-Annual site-wide inspections are required; however, for internal security purposes, National Grid will continue to conduct quarterly site-wide inspections.

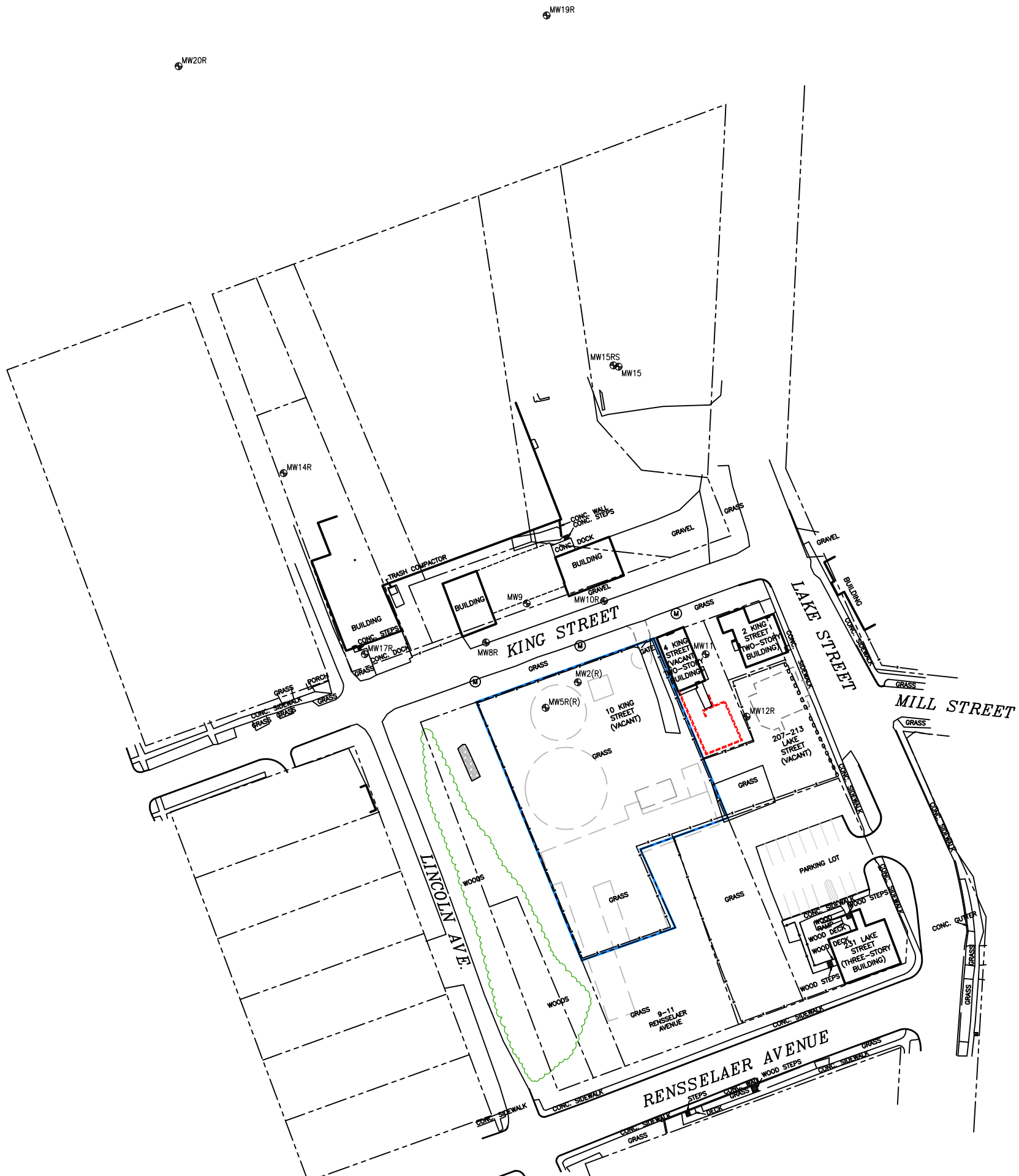


## Figures

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LEGEND

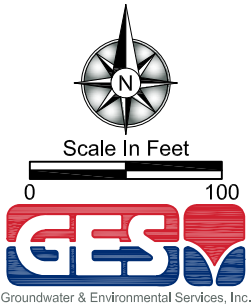
- PROPERTY BOUNDARY
- x - FENCE
- (M) UTILITY MANHOLE
- ⊕ MONITORING WELL

Expanded Site Map

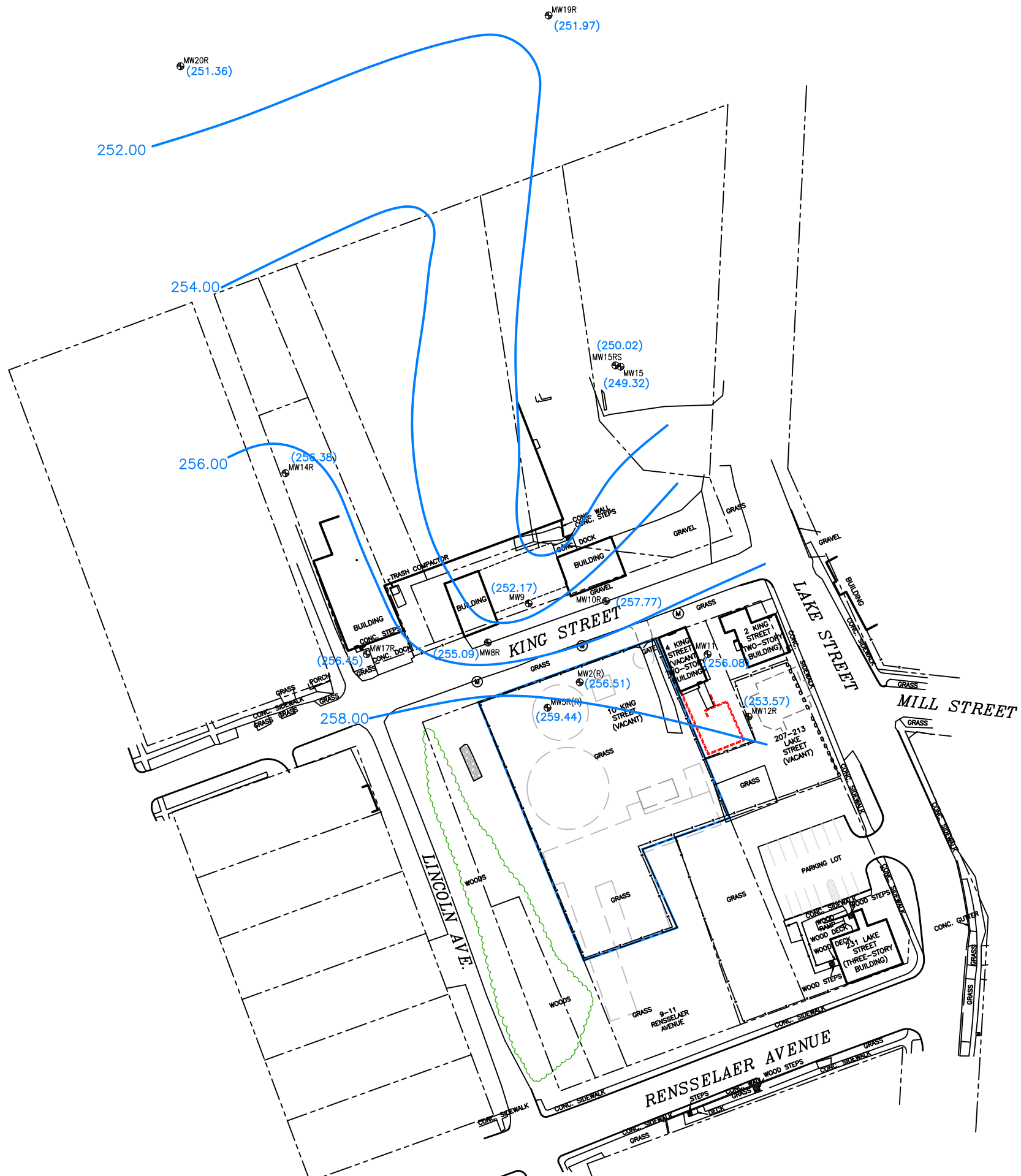
National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

Date  
11/10/21  
Figure  
1



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# LEGEND

- PROPERTY BOUNDARY
- x - FENCE
- (M) UTILITY MANHOLE
- ⊕ MONITORING WELL
- (259.44) GROUNDWATER ELEVATION (feet)
- ~ NOT SAMPLED

## NOTE:

MW10R, MW12R AND MW15 WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map  
April 15, 2021

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

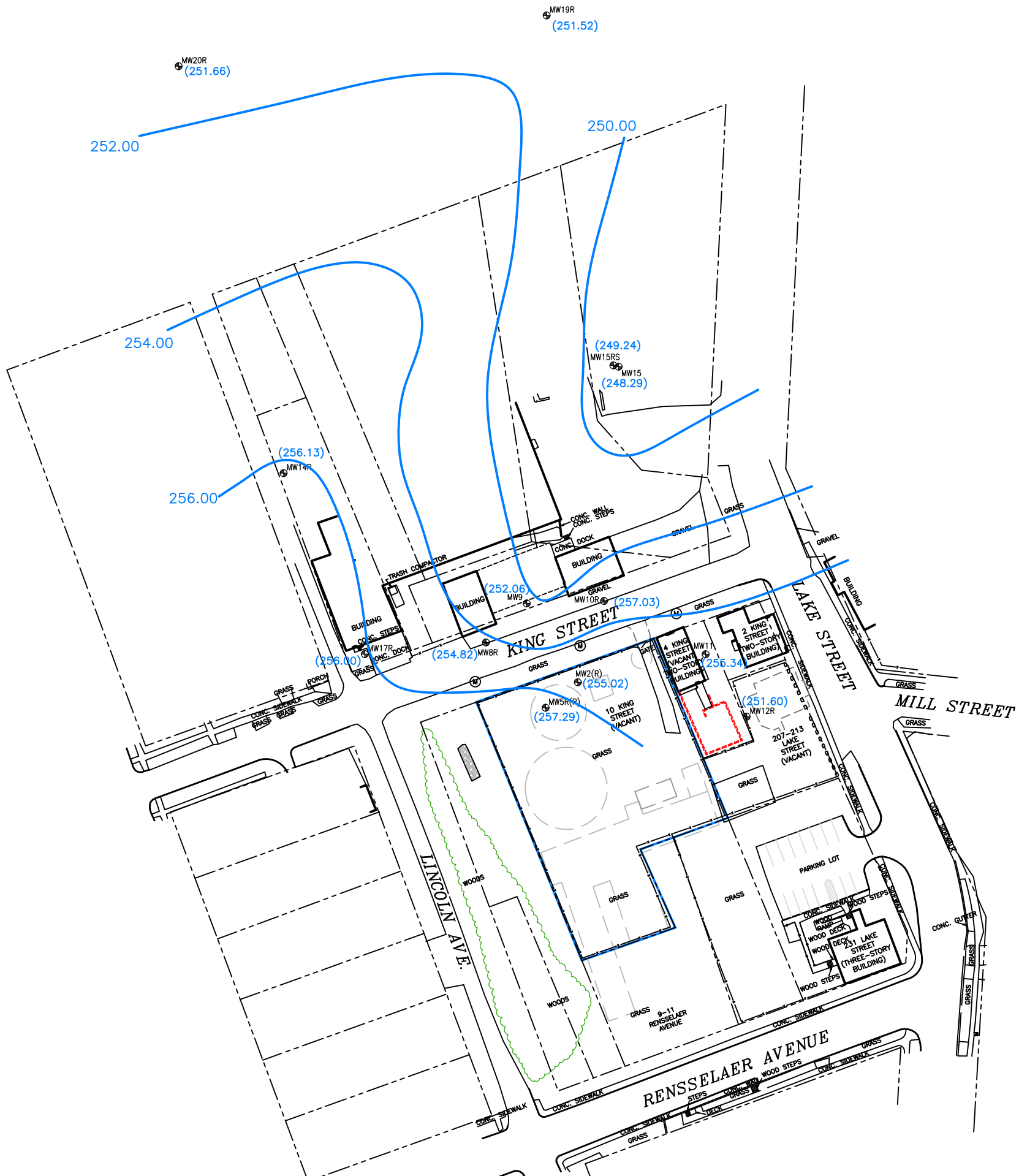


Date  
11/10/21  
Figure  
2

Scale In Feet  
0 100



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### LEGEND

- PROPERTY BOUNDARY
- x — FENCE
- Ⓜ UTILITY MANHOLE
- ⊕ MONITORING WELL
- (257.29) GROUNDWATER ELEVATION (feet)
- ~ NOT SAMPLED

### NOTE:

MW10R AND MW12R WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map  
October 20, 2021

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

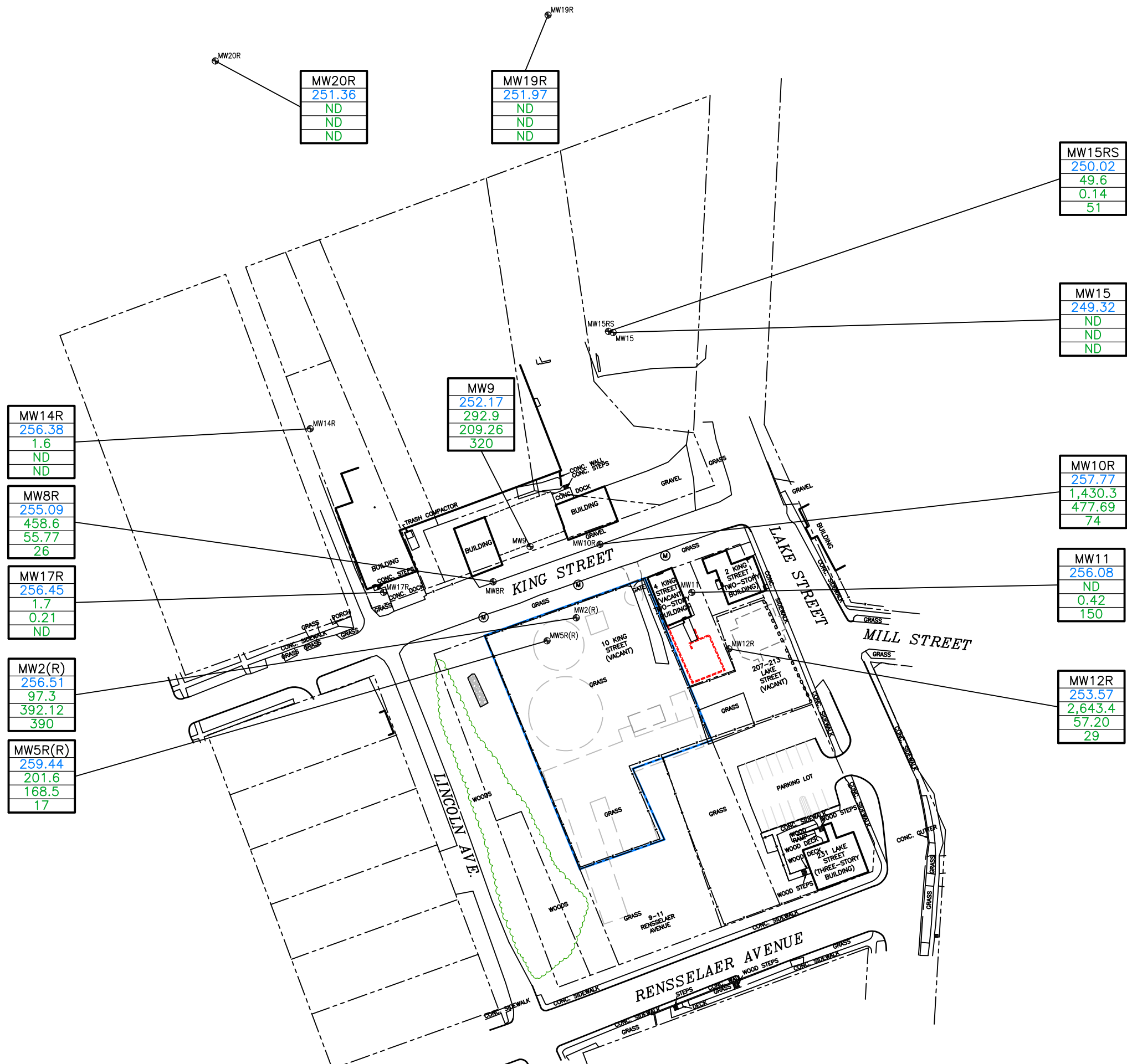


Date  
11/10/21  
Figure  
3

Scale In Feet  
0 100



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# LEGEND

- PROPERTY BOUNDARY
- x — FENCE
- (M) UTILITY MANHOLE
- ⊕ MONITORING WELL
- |        |                              |
|--------|------------------------------|
| MW2(R) | WELL IDENTIFICATION          |
| 256.51 | GROUNDWATER ELEVATION (feet) |
| 97.3   | BTEX CONCENTRATION (ug/L)    |
| 392    | PAHs CONCENTRATION (ug/L)    |
| 390    | CYANIDE CONCENTRATION (ug/L) |
- ug/L MICROGRAMS PER LITER
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- ND NOT DETECTED

Groundwater Monitoring Map  
April 15, 2021

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

Date  
12/28/21  
Figure  
4

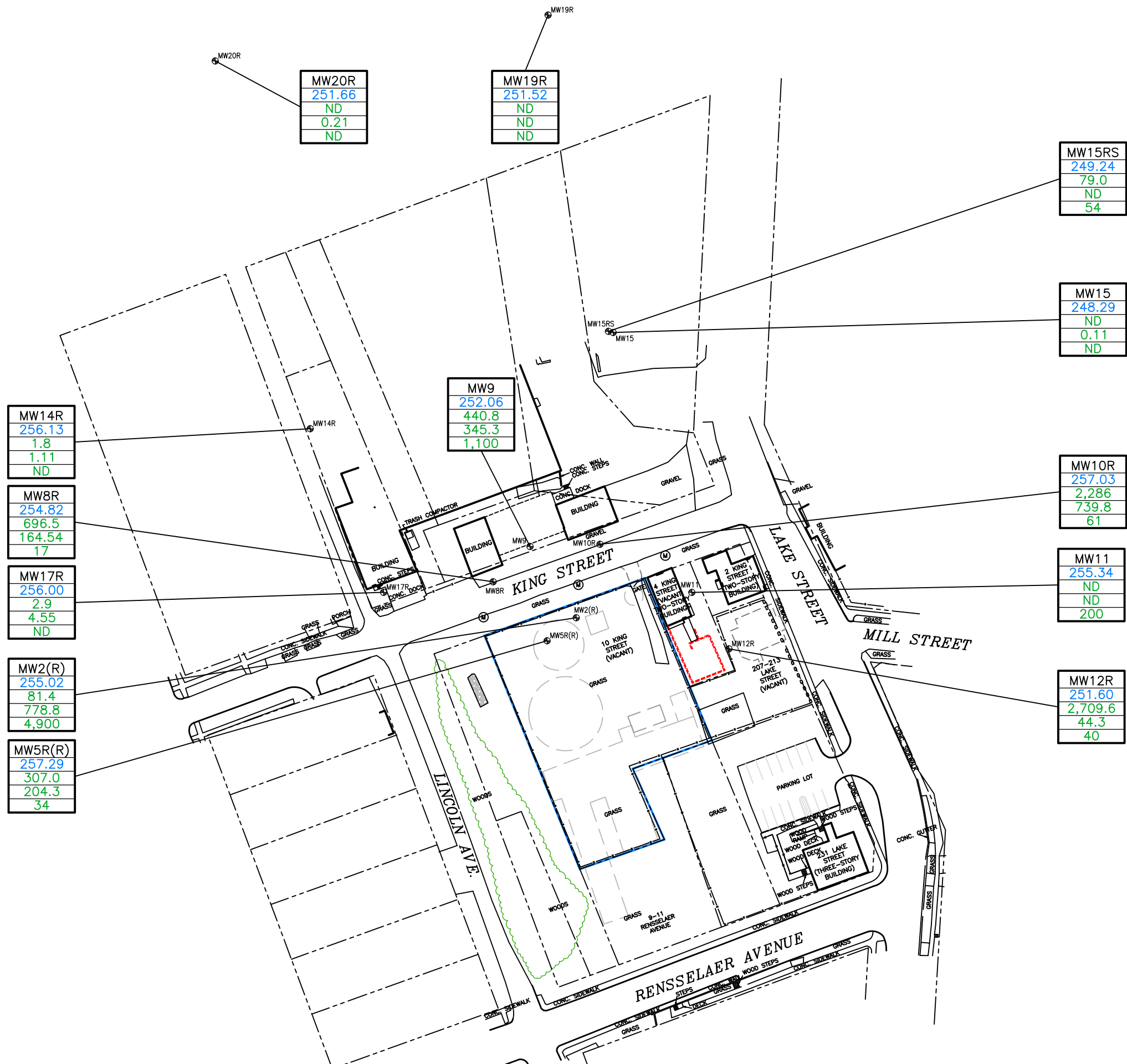


Scale In Feet





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## LEGEND

- PROPERTY BOUNDARY
- x — FENCE
- (M) UTILITY MANHOLE
- ⊕ MONITORING WELL
- |        |                              |
|--------|------------------------------|
| MW2(R) | WELL IDENTIFICATION          |
| 255.02 | GROUNDWATER ELEVATION (feet) |
| 81.4   | BTEX CONCENTRATION (ug/L)    |
| 779    | PAHs CONCENTRATION (ug/L)    |
| 4,900  | CYANIDE CONCENTRATION (ug/L) |
- ug/L MICROGRAMS PER LITER
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- ND NOT DETECTED

Groundwater Monitoring Map  
October 20, 2021

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

Date  
12/28/21  
Figure  
5



Scale In Feet





## Tables

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**Table 1**  
**Groundwater Monitoring Well Gauging Data**

Well ID	Well Type & Diameter	Groundwater Elevation (07/14/20)	Depth To Water (10/01/20)	Groundwater Elevation (10/01/20)	Depth To Water (4/15/21)	Groundwater Elevation (4/15/21)	Depth To Water (10/20/21)	Groundwater Elevation (10/20/21)
MW-2(R)	Flushmount; PVC; 2-inch	254.38	3.92	255.28	2.69	256.51	4.18	255.02
MW-5R(R)	Flushmount; PVC; 2-inch	254.28	2.75	256.65	-0.04	259.44	2.11	257.29
MW-8R	Flushmount; PVC; 2-inch	253.86	2.20	255.18	2.29	255.09	2.56	254.82
MW-9	Flushmount; PVC; 2-inch	252.12	4.85	252.15	4.83	252.17	4.94	252.06
MW-10R	Flushmount; PVC; 2-inch	256.42	0.50	257.08	-0.19	257.77	0.55	257.03
MW-11	Flushmount; PVC; 2-inch	255.45	3.49	255.58	2.99	256.08	3.73	255.34
MW-12R	Flushmount; PVC; 2-inch	250.47	9.34	251.45	7.22	253.57	9.19	251.60
MW-14R	Flushmount; PVC; 2-inch	253.66	0.00	256.13	-0.25	256.38	0.00	256.13
MW-15	Flushmount; PVC; 2-inch	248.40	8.06	248.56	7.30	249.32	8.33	248.29
MW-15RS	Flushmount; PVC; 2-inch	250.41	8.40	249.34	7.72	250.02	8.50	249.24
MW-17R	Flushmount; PVC; 2-inch	255.81	7.16	256.13	6.84	256.45	7.29	256.00
MW-19R	Flushmount; PVC; 2-inch	249.18	4.32	251.20	3.55	251.97	4.00	251.52
MW-20R	Flushmount; PVC; 2-inch	250.48	0.00	251.86	0.50	251.36	0.20	251.66

**Table 2**  
**Groundwater Analytical Data**  
MW-2(R)

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/23/14	10/20/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	<b>61</b>	<b>120</b>	<b>55.4</b>	<b>44.3</b>	<b>49.1</b>	<b>45.2</b>
Ethylbenzene	5	µg/L	ND	3	1.5	1.6	2.0	1.3
Toluene	5	µg/L	<b>29</b>	<b>44</b>	<b>22.4</b>	<b>19.4</b>	<b>23.1</b>	<b>17.8</b>
Total Xylenes	5	µg/L	<b>23</b>	<b>36</b>	<b>20.7</b>	<b>17.8</b>	<b>23.1</b>	<b>17.1</b>
<b>SVOCs</b>								
Acenaphthene	20	µg/L	1.8 J	4 J	3.5	3.0	4.9	10.7
Acenaphthylene	--	µg/L	7.7	18	16.2	12.6	20.7	44.9
Anthracene	50	µg/L	1.7 J	3 J	2.6	1.8	2.2	6.7
Benzo(a)anthracene	0.002	µg/L	<b>3.3</b>	ND	<b>0.13</b>	<b>0.37</b>	ND	ND
Benzo(a)pyrene	ND	µg/L	<b>2.8</b>	ND	ND	0.38	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	<b>3.5</b>	ND	ND	<b>0.50</b>	ND	ND
Benzo(g,h,i)perylene	--	µg/L	1.6 J	ND	ND	0.23	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	<b>1.4 J</b>	ND	ND	<b>0.17</b>	ND	ND
Chrysene	0.002	µg/L	<b>2.6</b>	ND	ND	<b>0.29</b>	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	6.9	ND	1.2	1.3	0.98	2.9
Fluorene	50	µg/L	2.3	7	6.2	5.2	7.7	22.1
Indeno(1,2,3-cd)pyrene	0.002	µg/L	<b>1.4 J</b>	ND	ND	<b>0.23</b>	ND	ND
2-Methylnaphthalene	--	µg/L	5.8	20	17.9	17.1	22.5	50.1
Naphthalene	10	µg/L	<b>120</b>	<b>270</b>	<b>210</b>	<b>270</b>	<b>327</b>	<b>622</b>
Phenanthrene	50	µg/L	4.1	6	5.0	4.1	5.5	17.7
Pyrene	50	µg/L	5.4	ND	0.74	0.92	0.61	1.7
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	<b>900</b>	<b>530</b>	<b>240</b>	<b>4,100</b>	<b>390</b>	<b>4,900</b>

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS



Table 2

Groundwater Analytical Data  
MW-5R(R)

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/22/14	10/20/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	130	440	392	354	144	231
Ethylbenzene	5	µg/L	7.0	26	27.3	24.3	11.6	16.8
Toluene	5	µg/L	3.0	70	82.6	65.0	21.8	25.5
Total Xylenes	5	µg/L	6.4	53	78.9	58.7	24.2	33.7
<b>SVOCs</b>								
Acenaphthene	20	µg/L	9.8	71	44.9	38.8	26.8	28.5
Acenaphthylene	--	µg/L	6.6	40	31.9	24.6	14.1	16.6
Anthracene	50	µg/L	0.50 J	8	4.9	3.1	0.85	2.0
Benzo(a)anthracene	0.002	µg/L	ND	ND	0.11	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	6	4.2	2.4	1.6	2.0
Fluorene	50	µg/L	4.7	48	28.4	23.8	18.5	21.6
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	6	10.3	7.9	3.9	4.3
Naphthalene	10	µg/L	4.1	210	248	315	86.6	110
Phenanthrene	50	µg/L	2.6	41	25.2	20.7	14.7	17.7
Pyrene	50	µg/L	ND	5	3.5	2.1	1.4	1.6
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	10	55	55	49	17	34

Notes:

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data  
MW-8R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/19/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	550	800	1,300	576	431	623
Ethylbenzene	5	µg/L	13	14	66.2	13.6	9.5	20.7
Toluene	5	µg/L	10	20	75.2	9.2	5.6	20.2
Total Xylenes	5	µg/L	19	27	132	18.0	12.5	32.6
<b>SVOCs</b>								
Acenaphthene	20	µg/L	5.6	10	16.2	7.6	8.2	12.6
Acenaphthylene	--	µg/L	6.7	10	23.4	5.4	3.3	12.9
Anthracene	50	µg/L	0.94 J	0.9	2.9	0.68	ND	1.5
Benzo(a)anthracene	0.002	µg/L	ND	ND	0.48	0.48	0.11	0.39
Benzo(a)pyrene	ND	µg/L	ND	ND	0.28	0.36	ND	0.22
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	0.31	0.38	ND	0.33
Benzo(g,h,i)perylene	--	µg/L	ND	ND	0.10	0.13	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	0.10	0.18	ND	0.28
Chrysene	0.002	µg/L	0.39 J	ND	0.28	0.32	ND	0.22
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	1.5 J	0.7	2.5	1.2	0.61	1.6
Fluorene	50	µg/L	4.40	7	15.6	4.5	4.6	10.1
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	0.10	0.14	ND	ND
2-Methylnaphthalene	--	µg/L	3.7	3	15.0	2.5	1.4	10.2
Naphthalene	10	µg/L	33	51	333	37.9	35.8	109
Phenanthrene	50	µg/L	2.7	2	9.2	1.7	1.3	4.0
Pyrene	50	µg/L	1.1 J	0.5	1.8	0.97	0.45	1.2
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	59	320	54	58	26	17

Notes:

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data

MW-9

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/19/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	280	340	283	228	165	259
Ethylbenzene	5	µg/L	120	140	112	107	65.3	111
Toluene	5	µg/L	170	85	50.8	16.3	9.6	21.3
Total Xylenes	5	µg/L	250	180	91.7	52.1	53.0	49.5
<b>SVOCs</b>								
Acenaphthene	20	µg/L	76	48	30.2	55.5	59.9	52.8
Acenaphthylene	--	µg/L	29	17	8.6	11.0	21.6	21.9
Anthracene	50	µg/L	11	8	2.6	11.4	7.3	19.7
Benzo(a)anthracene	0.002	µg/L	ND	2	0.21	5.80	2.5	18.5
Benzo(a)pyrene	ND	µg/L	ND	1	ND	4.4	1.6	12.7
Benzo(b)fluoranthene	0.002	µg/L	ND	1	ND	4.8	2.1	18.0
Benzo(g,h,i)perylene	--	µg/L	ND	0.4 J	ND	1.5	0.46	4.5
Benzo(k)fluoranthene	0.002	µg/L	ND	0.5 J	ND	1.8	2.0	15.4
Chrysene	0.002	µg/L	ND	1	0.13	4.30	1.8	11.2
Dibenz(a,h)anthracene	--	µg/L	ND	0.2 J	ND	0.46	0.21	1.6
Fluoranthene	50	µg/L	6.0	8	2.2	19.2	8.7	37.4
Fluorene	50	µg/L	56	38	19.0	36.1	34.1	45.4
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	1	ND	1.5	0.49	4.3
2-Methylnaphthalene	--	µg/L	14	1	ND	ND	ND	ND
Naphthalene	10	µg/L	450	72	18.1	9.1	51.2	10.3
Phenanthrene	50	µg/L	51	36	9.7	25.2	9.2	43.5
Pyrene	50	µg/L	3.5	5	1.2	12.7	6.1	28.1
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	410	1,300	1,000	1,500	320	1,100

Notes:

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data  
MW-10R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/23/14	10/19/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	1,700 J	1,400	1,360	1,540	1,040	1,790
Ethylbenzene	5	µg/L	25 J	100	122	124	94.3	138
Toluene	5	µg/L	3.1	94	230	201	171	197
Total Xylenes	5	µg/L	15	65	161	150	125	161
<b>SVOCs</b>								
Acenaphthene	20	µg/L	9.6	24	16.8	25.3	22.0	29.8
Acenaphthylene	--	µg/L	6.0	23	22.7	27.5	31.9	34.1
Anthracene	50	µg/L	ND	0.5	0.80	0.89	0.89	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	0.11	0.11	ND	ND
Fluorene	50	µg/L	3.9	11	8.1	11.4	9.7	13.2
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	1	3.6	4.8	6.4	7.4
Naphthalene	10	µg/L	20 J	140	296	486	405	653
Phenanthrene	50	µg/L	1.3 J	2	1.6	2.4	1.8	2.3
Pyrene	50	µg/L	ND	ND	ND	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	420	190	63	62	74	61

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data

MW-11

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND	ND	ND
<b>SVOCs</b>								
Acenaphthene	20	µg/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	0.11	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	0.14	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	0.13	ND	<b>0.12</b>	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	<b>0.12</b>	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.19	ND	ND	ND
Naphthalene	10	µg/L	ND	ND	0.87	0.36	0.18	ND
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	<b>250</b>	<b>310</b>	160	<b>270</b>	150	200

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data  
MW-12R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/18/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	2,600	2,900	1,420	2,440	2,470	2,520
Ethylbenzene	5	µg/L	130	110	67.6	86.7	87.3	104
Toluene	5	µg/L	7.4	15	5.8	13.8	16.1	13.2
Total Xylenes	5	µg/L	49	83	27.8	58.1	70.0	72.4
<b>SVOCs</b>								
Acenaphthene	20	µg/L	3.4	4	104	1.2	1.4	1.8
Acenaphthylene	--	µg/L	4.8	7	1.9	1.5	2.9	3.0
Anthracene	50	µg/L	ND	ND	ND	0.098	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND	ND
Fluorene	50	µg/L	ND	0.3 J	0.24	0.20	0.20	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	ND	ND	ND	ND
Naphthalene	10	µg/L	31	92	6.1	19.7	52.7	39.5
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	190	37	62	33	29	40

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data  
MW-14R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	3.0	48	1.0	ND	1.6	1.8
Ethylbenzene	5	µg/L	ND	ND	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND	ND	ND
<b>SVOCs</b>								
Acenaphthene	20	µg/L	ND	ND	0.12	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.14	ND	ND	0.12
Naphthalene	10	µg/L	ND	ND	0.96	ND	ND	0.99
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	ND	ND	ND	ND	ND	ND

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data

MW-15

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/19/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND	ND	ND
<b>SVOCs</b>								
Acenaphthene	20	µg/L	ND	ND	0.15	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	0.18	ND	ND	ND
Anthracene	50	µg/L	ND	ND	0.12	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	<b>0.28</b>	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	0.2 J	0.27	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	<b>0.2 J</b>	<b>0.29</b>	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	0.2 J	0.13	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	<b>0.11</b>	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	<b>0.19</b>	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	0.2 J	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	0.45	ND	ND	0.11
Fluorene	50	µg/L	ND	0.3 J	0.13	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	<b>0.12</b>	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.2	ND	ND	ND
Naphthalene	10	µg/L	ND	ND	1.0	0.27	ND	ND
Phenanthrene	50	µg/L	ND	0.1 J	0.28	ND	ND	ND
Pyrene	50	µg/L	0.35 J	0.3 J	0.4	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	ND	ND	15	ND	ND	ND

Notes:

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS



Table 2

Groundwater Analytical Data  
MW-15RS

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/22/14	10/19/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	750	170	4.8	9.7	49.6	79.0
Ethylbenzene	5	µg/L	ND	ND	ND	ND	ND	ND
Toluene	5	µg/L	0.54 J	ND	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND	ND	ND
<b>SVOCs</b>								
Acenaphthene	20	µg/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.14	ND	ND	ND
Naphthalene	10	µg/L	ND	ND	0.85	0.52	0.14	ND
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	160	64	67	41	51	54

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data  
MW-17R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	ND	ND	ND	ND	1.7	2.9
Ethylbenzene	5	µg/L	ND	ND	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND	ND	ND
<b>SVOCs</b>								
Acenaphthene	20	µg/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND	ND	0.30
Anthracene	50	µg/L	ND	ND	ND	ND	ND	0.13
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND	0.18
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	0.11
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	0.17
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	0.14
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	0.11
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND	0.28
Fluorene	50	µg/L	ND	ND	ND	ND	ND	0.21
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	ND	ND	ND	0.35
Naphthalene	10	µg/L	ND	ND	0.13	0.37	0.21	1.9
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND	0.44
Pyrene	50	µg/L	ND	ND	ND	ND	ND	0.23
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	ND	ND	ND	ND	ND	ND

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data  
MW-17R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND	ND	ND
<b>SVOCs</b>								
Acenaphthene	20	µg/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	ND	ND	ND	ND
Naphthalene	10	µg/L	ND	ND	0.30	0.12	ND	ND
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	ND	ND	ND	ND	ND	ND

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS

Table 2

Groundwater Analytical Data  
MW-20R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20	04/15/21	10/20/21
<b>BTEX</b>								
Benzene	1	µg/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND	ND	ND
<b>SVOCs</b>								
Acenaphthene	20	µg/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.14	ND	ND	ND
Naphthalene	10	µg/L	ND	ND	0.89	0.21	ND	0.21
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND	ND	ND
<b>Inorganics</b>								
Cyanide, Total	200	µg/L	ND	ND	ND	ND	ND	ND

**Notes:**

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

**Bolded** = values indicate exceedance of the NYSDEC AWQS



## **Appendix A – Field Inspection Reports**

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**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 10/20/2021  
Technician: KL

NYSDEC Site No. V00479

Time: 8:15  
Weather: Sunny 55

Site Wide			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS: Fence line clearing
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

Site Wide - SLG Responsible to Maintain			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS:

Soil Cover System			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

NG Owned Property on Lake Street - Not part of the SMP				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS: Fence line clearing	
Have the lawns been mowed?	YES	NO	COMMENTS:	
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO	COMMENTS:	

Miscellaneous				
Evidence of Trespassing	YES	NO	COMMENTS:	
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**

All wells are secure and in good condition.



**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 7/15/2021  
Technician: KL

NYSDEC Site No. V00479

Time: 8:00  
Weather: Sunny 72

Site Wide			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

Site Wide - SLG Responsible to Maintain			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS:

Soil Cover System			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

NG Owned Property on Lake Street - Not part of the SMP				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO		COMMENTS:
Have the lawns been mowed?	YES	NO		COMMENTS:
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO		COMMENTS:

Miscellaneous				
Evidence of Trespassing	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**

All wells are secure and in good condition.

**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 4/15/2021  
Technician: GE

NYSDEC Site No. V00479

Time: 9:00  
Weather: Cloudy 50's

Site Wide			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

Site Wide - SLG Responsible to Maintain			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS:

Soil Cover System			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

NG Owned Property on Lake Street - Not part of the SMP				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO		COMMENTS:
Have the lawns been mowed?	YES	NO		COMMENTS:
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO		COMMENTS:

Miscellaneous				
Evidence of Trespassing	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**

**Site Management Plan Inspection Form  
Ogdensburg (King Street)  
Non-Owned Former MGP Site  
Ogdensburg, New York**

Date: 1/21/2021  
Technician: KL

NYSDEC Site No. V00479

Time: 10:00  
Weather: Snow 23

Site Wide			
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:

Site Wide - SLG Responsible to Maintain			
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:
Have the lawns been mowed?	YES	NO	COMMENTS: winter

Soil Cover System			
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:
Any surface erosion?	YES	NO	COMMENTS:
Any settlement?	YES	NO	COMMENTS:
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

NG Owned Property on Lake Street - Not part of the SMP				
Any repairs, maintenance or corrective actions since the last inspection?	YES	NO		COMMENTS:
Have the lawns been mowed?	YES	NO		COMMENTS: winter
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS:
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS:
Are the boulders in place?	YES	NO		COMMENTS:

Miscellaneous				
Evidence of Trespassing	YES	NO		COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-2(R)	YES	NO
MW-5R(R)	YES	NO
MW-8R	YES	NO
MW-9	YES	NO
MW-10R	YES	NO
MW-11	YES	NO
MW-12R	YES	NO
MW-14R	YES	NO
MW-15	YES	NO
MW-15RS	YES	NO
MW-17R	YES	NO
MW-19R	YES	NO
MW-20R	YES	NO

**General Comments:**



## Appendix B – Well Sampling Field Data

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Well ID	Sample?	Well Size	DTW	DTP	DTB	Comments
MW-2(R)	Yes	2"	2.69	NP	6.35	
MW-5R(R)	Yes	2"	-0.04	NP	24.30	Artesian
MW-8R	Yes	2"	2.29	NP	20.92	MS/MSD
MW-9	Yes	2"	4.83	NP	6.35	
MW-10R	Yes	2"	-0.19	NP	22.50	Artesian, Field Duplicate
MW-11	Yes	2"	2.99	NP	6.51	
MW-12R	Yes	2"	7.22	NP	21.40	
MW-14R	Yes	2"	-0.25	NP	50.80	Artesian
MW-15	Yes	2"	7.30	NP	9.04	
MW-15RS	Yes	1"	7.72	NP	23.65	
MW-17R	Yes	2"	6.84	NP	26.90	
MW-19R	Yes	2"	3.55	NP	38.05	
MW-20R	Yes	2"	0.50	NP	28.40	

DTW -depth to water

DTP -depth to product

DTB -depth to bottom

Laboratory: Pace Analytical  
Greensburg, PA



Sampling Personnel: G. Ernst, P. Lyon

Job Number: 0603200-136690-221

Well Id. **MW-5R(R)**

Date: 4/15/21

Weather: cloudy, 11 Rain 50°S

Time In: 1315

Time Out: 1400

**Well Information**

		TOC	Other
Depth to Water:	(feet)	<u>-0.04</u>	
Depth to Bottom:	(feet)	<u>24.30</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>24.34</u>	
Volume of Water in Well:	(gal)	<u>3.89</u>	
Three Well Volumes:	(gal)	<u>11.68</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☒ SS ☐ Other: ☐  
 Well Diameter: 1" ☐ 2" ☒ Other: ☐  
 Comments:   
 \_\_\_\_\_

**Purging Information**

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
 Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒  
 Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
 Average Pumping Rate: (ml/min) ~250  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) 2.0 Did well go dry? Yes ☐ No ☒  
 Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1320</u>	<u>-0.04</u>	<u>10.99</u>	<u>8.75</u>	<u>-292</u>	<u>0.672</u>	<u>46.2</u>	<u>0.37</u>	<u>0.424</u>
<u>1325</u>	<u>1.99</u>	<u>10.66</u>	<u>9.12</u>	<u>-337</u>	<u>0.553</u>	<u>11.2</u>	<u>0.09</u>	<u>0.356</u>
<u>1330</u>	<u>3.09</u>	<u>10.50</u>	<u>9.34</u>	<u>-350</u>	<u>0.535</u>	<u>13.9</u>	<u>0.05</u>	<u>0.340</u>
<u>1335</u>	<u>4.24</u>	<u>10.40</u>	<u>9.42</u>	<u>-348</u>	<u>0.524</u>	<u>7.7</u>	<u>0.01</u>	<u>0.335</u>
<u>1340</u>	<u>5.07</u>	<u>10.23</u>	<u>9.50</u>	<u>-350</u>	<u>0.530</u>	<u>2.7</u>	<u>0.00</u>	<u>0.339</u>
<u>1345</u>	<u>5.79</u>	<u>10.17</u>	<u>9.60</u>	<u>-350</u>	<u>0.537</u>	<u>2.5</u>	<u>0.00</u>	<u>0.344</u>
<u>1350</u>	<u>6.14</u>	<u>10.09</u>	<u>9.64</u>	<u>-349</u>	<u>0.544</u>	<u>1.2</u>	<u>0.29</u>	<u>0.348</u>

**Sampling Information:**

EPA SW-846 Method 8270 SVOC PAH's 2 - 100 ml ambers Yes ☒ No ☐  
 EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes ☒ No ☐  
 EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes ☒ No ☐

Sample ID: MW-5R(R)-0421 Duplicate? Yes ☐ No ☒  
 Sample Time: 1355 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒  
 Ship to Pace ☒

Comments/Notes: \_\_\_\_\_

Laboratory: Pace Analytical  
Greensburg, PA



Sampling Personnel: G. Ernst, P. Lyon  
Job Number: 0603200-136690-221  
Well Id. MW-8R

Date: 4/15/21  
Weather: cloudy 1T Rain 50's  
Time In: 10:50 Time Out: 11:40

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>2.29</u>	
Depth to Bottom:	(feet)	<u>20.92</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>18.63</u>	
Volume of Water in Well:	(gal)	<u>2.98</u>	
Three Well Volumes:	(gal)	<u>8.94</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments: ☐

#### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Average Pumping Rate: (ml/min) ~250  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2.0 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>10:50</u>	<u>2.29</u>	<u>11.32</u>	<u>7.53</u>	<u>-120</u>	<u>0.696</u>	<u>45.4</u>	<u>1.36</u>	<u>0.447</u>
<u>10:55</u>	<u>3.40</u>	<u>11.08</u>	<u>7.54</u>	<u>-144</u>	<u>0.669</u>	<u>23.5</u>	<u>0.00</u>	<u>0.426</u>
<u>11:00</u>	<u>4.11</u>	<u>10.81</u>	<u>7.95</u>	<u>-169</u>	<u>0.644</u>	<u>21.0</u>	<u>0.02</u>	<u>0.413</u>
<u>11:05</u>	<u>4.84</u>	<u>10.75</u>	<u>8.21</u>	<u>-202</u>	<u>0.630</u>	<u>4.1</u>	<u>0.04</u>	<u>0.403</u>
<u>11:10</u>	<u>5.21</u>	<u>10.65</u>	<u>8.30</u>	<u>-226</u>	<u>0.627</u>	<u>4.9</u>	<u>0.03</u>	<u>0.401</u>
<u>11:15</u>	<u>5.44</u>	<u>10.63</u>	<u>8.35</u>	<u>-245</u>	<u>0.626</u>	<u>5.4</u>	<u>0.01</u>	<u>0.401</u>
<u>11:20</u>	<u>5.57</u>	<u>10.65</u>	<u>8.36</u>	<u>-254</u>	<u>0.625</u>	<u>2.5</u>	<u>0.00</u>	<u>0.400</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's  
EPA SW-846 Method 8260 VOC's BTEX  
EPA SW-846 Method 9012 Total Cyanide

**MW-8R-MS-0421 MW-8R-MSD-0421**

Sample ID: MW-8R-0421 Duplicate? Yes ☐ No ☒  
Sample Time: 11:25 MS/MSD? Yes ☒ No ☐

6 - 100 ml ambers Yes ☒ No ☐  
9 - 40 ml vials Yes ☒ No ☐  
3 - 250 ml plastic Yes ☒ No ☐

Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒

Comments/Notes:

Laboratory: Pace Analytical  
Greensburg, PA

Laboratory: Pace Analytical  
Greensburg, PA



Sampling Personnel: G. Ernst, P. Lyon

Job Number: 0603200-136690-221

Well Id. MW-10R

Date: 4/15/21

Weather: cloudy 50's

Time In: 0900 Time Out: 1015

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>-0.19</u>	<u>Artesian</u>
Depth to Bottom:	(feet)	<u>22.50</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>22.69</u>	
Volume of Water in Well:	(gal)	<u>3.63</u>	
Three Well Volumes:	(gal)	<u>10.9</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments: ☐

#### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Average Pumping Rate: (ml/min) ~250  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2.0 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=133.7cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0925</u>	<u>-0.19</u>	<u>14.94</u>	<u>10.10</u>	<u>-183</u>	<u>0.463</u>	<u>4.0</u>	<u>3.32</u>	<u>0.300</u>
<u>0930</u>	<u>0.71</u>	<u>13.82</u>	<u>11.16</u>	<u>-210</u>	<u>0.436</u>	<u>3.1</u>	<u>1.29</u>	<u>0.284</u>
<u>0935</u>	<u>1.42</u>	<u>12.65</u>	<u>11.21</u>	<u>-228</u>	<u>0.431</u>	<u>3.1</u>	<u>1.11</u>	<u>0.280</u>
<u>0940</u>	<u>1.88</u>	<u>11.91</u>	<u>11.21</u>	<u>-236</u>	<u>0.434</u>	<u>6.6</u>	<u>0.93</u>	<u>0.282</u>
<u>0945</u>	<u>2.32</u>	<u>11.40</u>	<u>11.19</u>	<u>-241</u>	<u>0.422</u>	<u>5.3</u>	<u>0.80</u>	<u>0.274</u>
<u>0950</u>	<u>2.53</u>	<u>11.23</u>	<u>11.17</u>	<u>-244</u>	<u>0.426</u>	<u>2.7</u>	<u>0.74</u>	<u>0.276</u>
<u>0955</u>	<u>2.82</u>	<u>11.04</u>	<u>11.24</u>	<u>-247</u>	<u>0.405</u>	<u>2.4</u>	<u>0.74</u>	<u>0.263</u>
<u>1000</u>	<u>2.99</u>	<u>10.81</u>	<u>11.09</u>	<u>-248</u>	<u>0.407</u>	<u>2.3</u>	<u>0.71</u>	<u>0.264</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's  
EPA SW-846 Method 8260 VOC's BTEX  
EPA SW-846 Method 9012 Total Cyanide

4 - 100 ml ambers Yes ☒ No ☐  
6 - 40 ml vials Yes ☒ No ☐  
2 - 250 ml plastic Yes ☒ No ☐

FD-0421

Sample ID: MW-10R-0421 Duplicate? Yes ☒ No ☐  
Sample Time: 10:00 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒

Comments/Notes: ☐

Laboratory: Pace Analytical  
Greensburg, PA



Sampling Personnel: G. Ernst, P. Lyon

Job Number: 0603200-136690-221

Well Id. **MW-11**

Date: 4/15/21

Weather: cloudy 50°s

Time In: 12:30

Time Out: 1315

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>2.99</u>	
Depth to Bottom:	(feet)	<u>6.51</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>3.52</u>	
Volume of Water in Well:	(gal)	<u>0.56</u>	
Three Well Volumes:	(gal)	<u>1.69</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

#### Purging Information

Purging Method:  Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Tubing/Bailer Material:  Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Sampling Method:  Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Average Pumping Rate: (ml/min) 2.50  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2.0 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

#### Conversion Factors

gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=133.7cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>12:35</u>	<u>2.99</u>	<u>13.32</u>	<u>8.73</u>	<u>-220</u>	<u>1.15</u>	<u>13.7</u>	<u>4.83</u>	<u>0.779</u>
<u>12:40</u>	<u>3.16</u>	<u>10.46</u>	<u>8.64</u>	<u>-191</u>	<u>1.27</u>	<u>10.0</u>	<u>0.88</u>	<u>0.816</u>
<u>12:45</u>	<u>3.16</u>	<u>9.95</u>	<u>8.12</u>	<u>-197</u>	<u>1.29</u>	<u>66.9</u>	<u>0.17</u>	<u>0.828</u>
<u>12:50</u>	<u>3.17</u>	<u>9.83</u>	<u>7.88</u>	<u>-208</u>	<u>1.31</u>	<u>16.5</u>	<u>0.00</u>	<u>0.839</u>
<u>12:55</u>	<u>3.18</u>	<u>9.77</u>	<u>7.72</u>	<u>-216</u>	<u>1.33</u>	<u>11.4</u>	<u>0.06</u>	<u>0.855</u>
<u>13:00</u>	<u>3.18</u>	<u>9.71</u>	<u>7.65</u>	<u>-219</u>	<u>1.35</u>	<u>12.4</u>	<u>0.11</u>	<u>0.863</u>
<u>13:05</u>	<u>3.18</u>	<u>9.70</u>	<u>7.57</u>	<u>-222</u>	<u>1.36</u>	<u>13.8</u>	<u>0.15</u>	<u>0.871</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's  
EPA SW-846 Method 8260 VOC's BTEX  
EPA SW-846 Method 9012 Total Cyanide

2 - 100 ml ambers Yes ☒ No ☐  
3 - 40 ml vials Yes ☒ No ☐  
1 - 250 ml plastic Yes ☒ No ☐

Sample ID: **MW-11-0421** Duplicate? Yes ☐ No ☒  
Sample Time: 1310 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒

Comments/Notes:

Laboratory: Pace Analytical  
Greensburg, PA

National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: G. Ernst, P. Lyon  
Job Number: 0603200-136690-221  
Well Id. **MW-12R**

Date: 4/15/21  
Weather: cloudy 50°s  
Time In: 11:46 Time Out: 12:30

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>7.22</u>	
Depth to Bottom:	(feet)	<u>21.40</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>14.18</u>	
Volume of Water in Well:	(gal)	<u>2.27</u>	
Three Well Volumes:	(gal)	<u>6.81</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other:   
Well Diameter: 1" ☐ 2" ☒ Other:   
Comments:

#### Purging Information

Purging Method:   
Tubing/Bailer Material:   
Sampling Method:   
Average Pumping Rate: (ml/min) ~250  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2.0  
Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Bailer ☐ Peristaltic ☒ Grundfos Pump ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>11:50</u>	<u>7.22</u>	<u>11.81</u>	<u>8.05</u>	<u>-231</u>	<u>0.627</u>	<u>44.7</u>	<u>2.52</u>	<u>0.400</u>
<u>11:55</u>	<u>8.73</u>	<u>11.62</u>	<u>8.29</u>	<u>-273</u>	<u>0.578</u>	<u>20.2</u>	<u>0.59</u>	<u>0.370</u>
<u>12:00</u>	<u>9.84</u>	<u>11.45</u>	<u>8.65</u>	<u>-303</u>	<u>0.564</u>	<u>8.1</u>	<u>0.35</u>	<u>0.361</u>
<u>12:05</u>	<u>10.82</u>	<u>11.41</u>	<u>8.87</u>	<u>-317</u>	<u>0.555</u>	<u>3.3</u>	<u>0.20</u>	<u>0.355</u>
<u>12:10</u>	<u>11.70</u>	<u>11.36</u>	<u>8.90</u>	<u>-328</u>	<u>0.552</u>	<u>3.5</u>	<u>0.16</u>	<u>0.353</u>
<u>12:15</u>	<u>12.34</u>	<u>11.36</u>	<u>8.99</u>	<u>-334</u>	<u>0.551</u>	<u>3.2</u>	<u>0.13</u>	<u>0.353</u>
<u>12:20</u>	<u>12.86</u>	<u>11.37</u>	<u>9.06</u>	<u>-338</u>	<u>0.552</u>	<u>3.7</u>	<u>0.10</u>	<u>0.353</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's  
EPA SW-846 Method 8260 VOC's BTEX  
EPA SW-846 Method 9012 Total Cyanide

2 - 100 ml ambers Yes ☒ No ☐  
3 - 40 ml vials Yes ☒ No ☐  
1 - 250 ml plastic Yes ☒ No ☐

Sample ID: **MW-12R-0421** Duplicate? Yes ☐ No ☒  
Sample Time: 1225 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒

Comments/Notes:

Laboratory: Pace Analytical  
Greensburg, PA



National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: Peter Lyon, G. ERNST  
Job Number: 0603200-136690-221  
Well Id: MW-14R

Date: 4/15/21  
Weather: light Rain 47°  
Time In: 1010 Time Out: 1050

Well Information			Well Type:	Flushmount	Stick-Up
Depth to Water:	(feet)	<u>51.05 TOC</u>	Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Depth to Bottom:	(feet)	<u>50.80</u>	Well Locked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Depth to Product:	(feet)	<u>---</u>	Measuring Point Marked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Length of Water Column:	(feet)	<u>50.80</u>	Well Material:	PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/>	Other: <u>---</u>
Volume of Water in Well:	(gal)	<u>8.12</u>	Well Diameter:	1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/>	Other: <u>---</u>
Three Well Volumes:	(gal)	<u>24.38</u>	Comments:		

Purging Information			Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump	<input type="checkbox"/>	Polyethylene	<input checked="" type="checkbox"/>
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Grundfos Pump	<input type="checkbox"/>		
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump	<input type="checkbox"/>		
Average Pumping Rate:	(ml/min)	<u>200</u>	gal/ft. of water			
Duration of Pumping:	(min)	<u>30</u>	1" ID	2" ID	4" ID	6" ID
Total Volume Removed:	(gal)	<u>2</u>	0.04	0.16	0.66	1.47
Horiba U-52 Water Quality Meter Used?			1 gallon=3.785L=3785mL=1337cu. feet			
Did well go dry?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1015	Above Well	10.23	8.57	-186	.510	3.8	7.88	.326
1020	-3.5'	10.40	8.35	-224	.516	4.5	7.24	.331
1025	Above manway	10.57	8.32	-241	.520	14.4	3.12	.333
1030	Above manway	10.54	8.34	-249	.516	7.9	0.00	.330
1035	Above manway	10.53	8.36	-256	.515	7.3	0.00	.330
1040	Above manway	10.66	8.36	-260	.515	5.9	0.00	.329
1045	Above manway	10.60	8.36	-265	.516	2.7	0.00	.331

Sampling Information:			2 - 100 ml ambers			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
EPA SW-846 Method 8270	SVOC PAH's		3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX							
EPA SW-846 Method 9012	Total Cyanide							
Sample ID: <u>MW-14R-0421</u>	Duplicate?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped:	Pace Courier Pickup	<input checked="" type="checkbox"/>	Ship to Pace	<input checked="" type="checkbox"/>	
Sample Time: <u>1045</u>	MS/MSD?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Laboratory:	Pace Analytical		Greensburg, PA		
Comments/Notes: <u>Water Level Above Well Manway</u>								



National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: Peter Lyon, G. Ernst  
Job Number: 0603200-136690-221  
Well Id. MW-15

Date: 4/15/21  
Weather: 50° Cloudy  
Time In: 1235 Time Out: 1315

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>7.30</u>	
Depth to Bottom:	(feet)	<u>9.04</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>1.74</u>	
Volume of Water in Well:	(gal)	<u>.27</u>	
Three Well Volumes:	(gal)	<u>.83</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments: ☐

#### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Average Pumping Rate: (ml/min) 250  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 1 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

#### Conversion Factors

gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1240</u>	<u>7.51</u>	<u>10.17</u>	<u>7.98</u>	<u>-49</u>	<u>.892</u>	<u>1000</u>	<u>0.00</u>	<u>.571</u>
<u>1245</u>	<u>7.76</u>	<u>10.03</u>	<u>7.47</u>	<u>-64</u>	<u>.901</u>	<u>650</u>	<u>0.00</u>	<u>.577</u>
<u>1250</u>	<u>7.98</u>	<u>9.70</u>	<u>7.37</u>	<u>-70</u>	<u>.906</u>	<u>317</u>	<u>0.00</u>	<u>.580</u>
<u>1255</u>	<u>8.17</u>	<u>9.76</u>	<u>7.35</u>	<u>-74</u>	<u>.906</u>	<u>362</u>	<u>0.00</u>	<u>.580</u>
<u>1300</u>	<u>8.36</u>	<u>9.70</u>	<u>7.35</u>	<u>-79</u>	<u>.912</u>	<u>108</u>	<u>0.00</u>	<u>.584</u>
<u>1305</u>	<u>8.54</u>	<u>9.67</u>	<u>7.33</u>	<u>-81</u>	<u>.911</u>	<u>106</u>	<u>0.00</u>	<u>.584</u>
<u>1310</u>	<u>8.68</u>	<u>9.70</u>	<u>7.33</u>	<u>-84</u>	<u>.911</u>	<u>39.8</u>	<u>0.00</u>	<u>.582</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's  
EPA SW-846 Method 8260 VOC's BTEX  
EPA SW-846 Method 9012 Total Cyanide

2 - 100 ml ambers Yes ☒ No ☐  
3 - 40 ml vials Yes ☒ No ☐  
1 - 250 ml plastic Yes ☒ No ☐

Sample ID: MW-15-0421 Duplicate? Yes ☐ No ☒  
Sample Time: 1310 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒

Comments/Notes:

Laboratory: Pace Analytical  
Greensburg, PA

National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: Pete Lyon, G. Ernst  
Job Number: 0603200-136690-221  
Well Id. MW-15RS

Date: 4/15/20  
Weather: Cloudy 50°  
Time In: 13:15 Time Out: 14:00

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>7.72</u>	
Depth to Bottom:	(feet)	<u>23.65</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>15.93</u>	
Volume of Water in Well:	(gal)	<u>.63</u>	
Three Well Volumes:	(gal)	<u>1.91</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☒ 2" ☐ Other: ☐  
Comments:

#### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Average Pumping Rate: (ml/min) 200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 1 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

#### Conversion Factors

gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1320</u>	<u>10.84</u>	<u>10.22</u>	<u>7.43</u>	<u>-208</u>	<u>1.02</u>	<u>47.6</u>	<u>5.61</u>	<u>.658</u>
<u>1325</u>	<u>13.64</u>	<u>9.96</u>	<u>8.04</u>	<u>-256</u>	<u>1.08</u>	<u>48.3</u>	<u>5.15</u>	<u>.689</u>
<u>1330</u>	<u>14.00</u>	<u>10.31</u>	<u>8.09</u>	<u>-257</u>	<u>1.09</u>	<u>28.3</u>	<u>4.88</u>	<u>.694</u>
<u>1335</u>	<u>14.15</u>	<u>10.35</u>	<u>8.10</u>	<u>-271</u>	<u>1.11</u>	<u>27.7</u>	<u>4.30</u>	<u>.714</u>
<u>1340</u>	<u>14.51</u>	<u>10.34</u>	<u>8.06</u>	<u>-276</u>	<u>1.17</u>	<u>27.6</u>	<u>3.62</u>	<u>.753</u>
<u>1345</u>	<u>14.76</u>	<u>10.28</u>	<u>8.06</u>	<u>-281</u>	<u>1.19</u>	<u>27.1</u>	<u>3.17</u>	<u>.765</u>
<u>1350</u>	<u>15.02</u>	<u>10.20</u>	<u>8.05</u>	<u>-279</u>	<u>1.24</u>	<u>27.4</u>	<u>2.92</u>	<u>.797</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 100 ml ambers Yes ☒ No ☐  
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes ☒ No ☐  
EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes ☒ No ☐

Sample ID: MW-15RS-0421 Duplicate? Yes ☐ No ☒  
Sample Time: 1350 MS/MSD? Yes ☐ No ☒  
Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒

Comments/Notes:

Laboratory: Pace Analytical  
Greensburg, PA



Sampling Personnel: Peter Lyon, G. Ernst  
Job Number: 0603200-136690-221  
Well Id. MW-17R

Date: 4/15/21  
Weather: Rainy 47°  
Time In: 9:25 Time Out: 10:05

Well Information		TOC	Other
Depth to Water:	(feet)	<u>6.89</u>	
Depth to Bottom:	(feet)	<u>26.90</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>20.06</u>	
Volume of Water in Well:	(gal)	<u>3.20</u>	
Three Well Volumes:	(gal)	<u>9.62</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

Purging Information

Purging Method:   
Tubing/Bailer Material:   
Sampling Method:   
Average Pumping Rate: (ml/min) 200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2  
Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0930</u>	<u>8.00</u>	<u>14.48</u>	<u>8.69</u>	<u>-148</u>	<u>.609</u>	<u>3.1</u>	<u>0.00</u>	<u>.388</u>
<u>0935</u>	<u>8.72</u>	<u>13.31</u>	<u>8.10</u>	<u>-149</u>	<u>.593</u>	<u>2.9</u>	<u>0.00</u>	<u>.380</u>
<u>0940</u>	<u>9.06</u>	<u>9.91</u>	<u>8.15</u>	<u>-163</u>	<u>.643</u>	<u>2.7</u>	<u>0.59</u>	<u>.409</u>
<u>0945</u>	<u>9.37</u>	<u>11.50</u>	<u>8.05</u>	<u>-171</u>	<u>.618</u>	<u>3.1</u>	<u>0.00</u>	<u>.395</u>
<u>0950</u>	<u>9.58</u>	<u>11.60</u>	<u>8.01</u>	<u>-188</u>	<u>.616</u>	<u>3.2</u>	<u>0.00</u>	<u>.395</u>
<u>0955</u>	<u>9.74</u>	<u>11.52</u>	<u>7.99</u>	<u>-200</u>	<u>.620</u>	<u>3.3</u>	<u>0.00</u>	<u>.397</u>
<u>1000</u>	<u>9.86</u>	<u>11.43</u>	<u>7.99</u>	<u>-206</u>	<u>.625</u>	<u>3.6</u>	<u>0.00</u>	<u>.400</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 100 ml ambers Yes ☒ No ☐  
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes ☒ No ☐  
EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes ☒ No ☐  
Sample ID: MW-17R-0421 Duplicate? Yes ☐ No ☒  
Sample Time: 10:00 MS/MSD? Yes ☐ No ☒  
Comments/Notes:   
Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒  
Laboratory: Pace Analytical  
Greensburg, PA

National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: Peter Lyon, G. Ernst  
Job Number: 0603200-136690-221  
Well Id. MW-19R

Date: 4/15/21  
Weather: 48° light Rain  
Time In: 1150 Time Out: 1230

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>3.55</u>	
Depth to Bottom:	(feet)	<u>38.05</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>34.5</u>	
Volume of Water in Well:	(gal)	<u>5.52</u>	
Three Well Volumes:	(gal)	<u>16.56</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments: ☐

#### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Average Pumping Rate: (ml/min) 200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☒

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1155</u>	<u>4.75</u>	<u>10.42</u>	<u>8.40</u>	<u>-102</u>	<u>.458</u>	<u>49.2</u>	<u>8.09</u>	<u>.298</u>
<u>1200</u>	<u>6.58</u>	<u>10.31</u>	<u>8.58</u>	<u>-97</u>	<u>.468</u>	<u>30.5</u>	<u>7.08</u>	<u>.304</u>
<u>1205</u>	<u>7.89</u>	<u>10.38</u>	<u>8.59</u>	<u>-92</u>	<u>.469</u>	<u>23.8</u>	<u>6.53</u>	<u>.304</u>
<u>1210</u>	<u>9.56</u>	<u>10.45</u>	<u>8.60</u>	<u>-83</u>	<u>.467</u>	<u>19.1</u>	<u>5.89</u>	<u>.304</u>
<u>1215</u>	<u>11.30</u>	<u>10.29</u>	<u>8.62</u>	<u>-84</u>	<u>.468</u>	<u>2.0</u>	<u>5.11</u>	<u>.304</u>
<u>1220</u>	<u>12.71</u>	<u>10.47</u>	<u>8.61</u>	<u>-81</u>	<u>.468</u>	<u>1.8</u>	<u>4.50</u>	<u>.304</u>
<u>1225</u>	<u>14.16</u>	<u>10.51</u>	<u>8.63</u>	<u>-79</u>	<u>.467</u>	<u>1.6</u>	<u>3.85</u>	<u>.303</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's  
EPA SW-846 Method 8260 VOC's BTEX  
EPA SW-846 Method 9012 Total Cyanide

2 - 100 ml ambers Yes ☒ No ☐  
3 - 40 ml vials Yes ☒ No ☐  
1 - 250 ml plastic Yes ☒ No ☐

Sample ID: MW-19R-0421 Duplicate? Yes ☐ No ☒  
Sample Time: 1225 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒

Comments/Notes:

Laboratory: Pace Analytical  
Greensburg, PA



Sampling Personnel: Peter Lyon, G. Ernst  
Job Number: 0603200-136690-221  
Well Id. MW-20R

Date: 4/15/21  
Weather: 47° light Rain  
Time In: 1100 Time Out: 1140

Well Information		TOC	Other
Depth to Water:	(feet)	<u>0.50</u>	
Depth to Bottom:	(feet)	<u>28.40</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>22.9</u>	
Volume of Water in Well:	(gal)	<u>4.46</u>	
Three Well Volumes:	(gal)	<u>13.39</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐  
Average Pumping Rate: (ml/min) 200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1105</u>	<u>1.32</u>	<u>9.95</u>	<u>8.39</u>	<u>-190</u>	<u>.542</u>	<u>26.2</u>	<u>4.25</u>	<u>.351</u>
<u>1110</u>	<u>2.23</u>	<u>9.98</u>	<u>8.29</u>	<u>-189</u>	<u>.545</u>	<u>4.2</u>	<u>6.26</u>	<u>.349</u>
<u>1115</u>	<u>2.96</u>	<u>10.01</u>	<u>8.26</u>	<u>-187</u>	<u>.543</u>	<u>3.5</u>	<u>5.70</u>	<u>.348</u>
<u>1120</u>	<u>3.71</u>	<u>9.96</u>	<u>8.25</u>	<u>-185</u>	<u>.548</u>	<u>2.2</u>	<u>5.02</u>	<u>.351</u>
<u>1125</u>	<u>4.42</u>	<u>10.03</u>	<u>8.22</u>	<u>-182</u>	<u>.542</u>	<u>2.1</u>	<u>4.92</u>	<u>.347</u>
<u>1130</u>	<u>5.02</u>	<u>10.04</u>	<u>8.23</u>	<u>-178</u>	<u>.542</u>	<u>1.7</u>	<u>4.59</u>	<u>.347</u>
<u>1135</u>	<u>5.67</u>	<u>10.17</u>	<u>8.18</u>	<u>-173</u>	<u>.539</u>	<u>1.1</u>	<u>3.95</u>	<u>.345</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 100 ml ambers Yes ☒ No ☐  
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes ☒ No ☐  
EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes ☒ No ☐  
Sample ID: MW-20R-0421 Duplicate? Yes ☐ No ☒  
Sample Time: 1135 MS/MSD? Yes ☐ No ☒  
Shipped: Pace Courier Pickup ☒  
Ship to Pace ☒  
Laboratory: Pace Analytical  
Greensburg, PA

Comments/Notes:

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

## Section A

### Required Client Information:

Company: GES - Syracuse  
Address: 5 Technology Place, Suite 4  
East Syracuse, New York 13057  
Email To: dshay@gesonline.com  
Phone: 800.220.3069  
Fax: None  
Requested Due Date/TAT: Standard

## Section B

### Required Project Information:

Report To: Devin Shay (GES)  
dshay@gesonline.com  
Report To: Tim Beaumont (GES)  
tbeaumont@gesonline.com  
Purchase Order No.:  
Project Name: National Grid - Ogdensburg  
King Street Ogdensburg, NY  
Project Number:  
0603200-136690-221-1106

## Section C

### Invoice Information:

Attention: Accounts Payable via email at ges-invoices@gesonline.com  
Company Name: Groundwater & Environmental Services, Inc.  
Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057  
Pace Quote Reference:  
Pace Project Manager: Rachel Christner  
Pace Profile #: **Semi-Annual GWS**

Page: 1 of 1

## REGULATORY AGENCY

☐ NPDES ☐ 3GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

SITE ☐ GA ☐ L ☐ R ☐ T ☐ W

LOCATION ☐ CH ☐ IC ☐ FI ☐ HER

Filtered (Y/N)

Requested  
Analysis:

Pace Project  
Number  
Lab I.D.

ITEM #	Section D Required Client Information		Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE	G-GRAB	C-COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives										Requested Analysis:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	SAMPLE ID One Character per box. (A-Z, 0-9 / -) IDs MUST BE UNIQUE	Samples	MATRIX	CODE					COMPOSITE START	GRAB	Unpreserved	H <sub>2</sub> SO <sub>4</sub>			HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	BTEX (B200C)	SVOCs (P210) (B210D)	Cyanide Total (B212B)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

Additional Comments:

SAMPLES WILL ARRIVE IN

#

COOLERS.

Please send reports to: dshay@gesonline.com, tbeaumont@gesonline.com

NERegion@gesonline.com, qes@equisonline.com

SPECIFIC EDD NAME:

NGOgdensburg-labnumber.28351.EQEDD.zip

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

*[Signature]*

4/16/2020

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY)

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact

**National Grid**  
**King Street Non-Owned Former MGP Site**  
**Ogdensburg, New York**

**Semi-Annual Groundwater Sampling Event**  
**October 27, 2021**

Well ID	Sample?	Well Size	DTW	DTP	DTB	Comments
MW-2(R)	Yes	2"	4.18		6.35	
MW-5R(R)	Yes	2"	2.11		24.30	
MW-8R	Yes	2"	2.56		20.92	MS/MSD
MW-9	Yes	2"	4.94		6.35	
MW-10R	Yes	2"	0.55		22.50	Field Duplicate
MW-11	Yes	2"	3.73		6.51	
MW-12R	Yes	2"	9.19		21.40	
MW-14R	Yes	2"	0.00		50.80	
MW-15	Yes	2"	8.33		9.04	
MW-15RS	Yes	1"	8.50		23.65	
MW-17R	Yes	2"	7.29		26.90	
MW-19R	Yes	2"	4.00		38.05	
MW-20R	Yes	2"	0.20		28.40	

**DTW** -depth to water

**DTP** -depth to product

**DTB** -depth to bottom



<b>Sampling Information:</b>			
EPA SW-846 Method 8270	SVOC PAH's	2 - 100 ml ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <b>MW-19R-1021</b>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped:	Pace Courier Pickup <input checked="" type="checkbox"/>
Sample Time: <b>1125</b>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Ship to Pace <input type="checkbox"/>
<b>Comments/Notes:</b>		Laboratory:	Pace Analytical Greensburg, PA

Sampling Personnel: G. ERNST  
Job Number: 0603275-136690-221  
Well Id. MW-2(R)

Date: 10/20/21  
Weather: Clear 60°s  
Time In: 1135 Time Out: \_\_\_\_\_

Well Information		TOC	Other
Depth to Water:	(feet)	<u>4.18</u>	
Depth to Bottom:	(feet)	<u>6.35</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>2.17</u>	
Volume of Water in Well:	(gal)	<u>0.35</u>	
Three Well Volumes:	(gal)	<u>1.04</u>	

Well Type:	Flushmount <input checked="" type="checkbox"/>	Stick-Up <input type="checkbox"/>
Well Locked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Measuring Point Marked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Well Material:	PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/>	Other: _____
Well Diameter:	1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/>	Other: _____
Comments: _____		

Purging Information		Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	gal/ft.	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input type="checkbox"/>	of				
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min) <u>200</u>	1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min) <u>30</u>					
Total Volume Removed:	(gal) <u>1.5</u>					
Did well go dry? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1140</u>	<u>4.97</u>	<u>21.45</u>	<u>8.05</u>	<u>-281</u>	<u>0.627</u>	<u>27.9</u>	<u>3.36</u>	<u>0.401</u>
<u>1145</u>	<u>5.88</u>	<u>20.91</u>	<u>7.76</u>	<u>-291</u>	<u>0.627</u>	<u>32.5</u>	<u>1.57</u>	<u>0.400</u>
<u>1150</u>	<u>6.08</u>	<u>21.62</u>	<u>8.10</u>	<u>-269</u>	<u>0.623</u>	<u>50.9</u>	<u>3.50</u>	<u>0.398</u>
<u>1155</u>	<u>6.35</u>	<u>21.95</u>	<u>8.73</u>	<u>-262</u>	<u>0.608</u>	<u>51.8</u>	<u>4.78</u>	<u>0.389</u>
<u>1200</u>			<u>Dried</u>					
<u>1205</u>								
<u>1210</u>								

Sampling Information:		2 - 100 ml ambers		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8270	SVOC PAH's	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 9012	Total Cyanide			
Sample ID: <u>MW-2(R)-1021</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>	
Sample Time: <u>1200</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ship to Pace	<input type="checkbox"/>	
Comments/Notes: _____		Laboratory: Pace Analytical	Greensburg, PA	

Sampling Personnel: G. ERNST  
Job Number: 0603275-136690-221  
Well Id. MW-5R(R)

Date: 10/20/21  
Weather: clear 60°s  
Time In: 1050 Time Out: 1135

Well Information		TOC	Other
Depth to Water:	(feet)	<u>2.11</u>	
Depth to Bottom:	(feet)	<u>24.30</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>22.19</u>	
Volume of Water in Well:	(gal)	<u>3.55</u>	
Three Well Volumes:	(gal)	<u>10.65</u>	

Well Type:	Flushmount <input checked="" type="checkbox"/>	Stick-Up <input type="checkbox"/>
Well Locked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Measuring Point Marked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Well Material:	PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/>	Other: <input type="text"/>
Well Diameter:	1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/>	Other: <input type="text"/>
Comments: <input type="text"/>		

Purging Information		Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	gal/ft.	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input checked="" type="checkbox"/>	of				
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min) <u>200</u>	1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min) <u>30</u>					
Total Volume Removed:	(gal) <u>1.5</u>					
Did well go dry?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1055	2.97	20.78	7.21	-279	0.683	128	2.55	0.440
1100	3.93	20.27	7.76	-320	0.752	117	1.22	0.483
1105	5.28	19.65	8.38	-326	0.785	109	0.99	0.503
1110	6.26	19.54	8.54	-334	0.770	91.6	0.99	0.492
1115	7.03	19.51	8.57	-339	0.742	54.2	0.96	0.475
1120	7.59	19.53	8.58	-342	0.717	44.7	0.95	0.458
1125	8.07	19.55	8.55	-343	0.694	25.9	0.93	0.444

Sampling Information:		2 - 100 ml ambers		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8270	SVOC PAH's	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 9012	Total Cyanide			
Sample ID: <u>MW-5R(R)-1021</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>	
Sample Time: <u>1130</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ship to Pace	<input type="checkbox"/>	
Comments/Notes: <input type="text"/>		Laboratory: Pace Analytical	Greensburg, PA	

National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: KL  
Job Number: 0603275-136690-221  
Well Id. **MW-8R**

Date: 10/20/21  
Weather:  
Time In: 0950 Time Out: 10:40

Well Information		TOC	Other
Depth to Water:	(feet)	<u>2.56</u>	
Depth to Bottom:	(feet)	<u>20.92</u>	
Depth to Product:	(feet)		
Length of Water Column:	(feet)		
Volume of Water in Well:	(gal)		
Three Well Volumes:	(gal)		

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

Purging Information		Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	gal/ft.	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input checked="" type="checkbox"/>	of				
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min) <u>200</u>	1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min) <u>30</u>					
Total Volume Removed:	(gal) <u>2</u>					
Did well go dry? Yes <input type="checkbox"/> No <input type="checkbox"/>						
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
10:00	4.33	17.02	7.56	-276	0.702	14.9	0.78	0.449
10:05	4.89	17.17	7.92	-291	0.702	49.3	3.37	0.44
10:10	5.98	17.42	8.39	-308	0.703	20.5	2.99	0.450
10:15	7.47	17.59	8.66	-322	0.704	13.0	2.57	0.451
10:20	8.97	17.44	8.94	-328	0.712	9.1	2.18	0.456
10:25	10.03	17.55	9.15	-330	0.714	11.0	1.93	0.457
10:30	10.58	17.50	9.39	-330	0.709	12.6	1.71	0.453

Sampling Information:		6 - 100 ml ambers		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8270	SVOC PAH's	9 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX	3 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 9012	Total Cyanide			
<b>MW-8R-MS-1021</b>	<b>MW-8R-MSD-1021</b>			
Sample ID: <u>MW-8R-1021</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>	
Sample Time: <u>12:30</u>	MS/MSD? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ship to Pace	<input type="checkbox"/>	
Comments/Notes:		Laboratory: Pace Analytical	Greensburg, PA	

<b>Sampling Information:</b>		2 - 100 ml ambers		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
EPA SW-846 Method 8270	SVOC PAH's	3 - 40 ml vials		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	1 - 250 ml plastic		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide				
Sample ID: <b>MW-9-1021</b>	Duplicate?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Shipped:	
Sample Time: <b>10:05</b>	MS/MSD?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Pace Courier Pickup	
				Ship to Pace	
Comments/Notes: <b>09:40</b>				Laboratory:	
				Pace Analytical Greensburg, PA	

National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: K  
Job Number: 0603275-136690-221  
Well Id. **MW-10R**

Date: 10/20/21  
Weather: Sunny 55  
Time In: 8:45 Time Out: 09:38

Well Information		TOC	Other
Depth to Water:	(feet)	<u>0.55</u>	
Depth to Bottom:	(feet)	22.50	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	<u>21.95</u>	
Volume of Water in Well:	(gal)	<u>3.51</u>	
Three Well Volumes:	(gal)	<u>10.54</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments: ☐

Purging Information		Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Grundfos Pump <input type="checkbox"/>	gal/ft.	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input type="checkbox"/> Polyethylene <input checked="" type="checkbox"/>	of				
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Grundfos Pump <input type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min) <u>300</u>	1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min) <u>30</u>					
Total Volume Removed:	(gal) <u>3</u>					
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
08:55	1.96	16.25	8.92	-195	0.389	2.5	1.31	0.252
09:00	3.93	16.61	9.10	-225	0.436	2.3	0.88	0.287
09:05	4.33	16.45	8.98	-233	0.556	2.2	0.84	0.359
09:10	5.10	16.29	8.91	-244	0.641	0.9	1.32	0.410
09:15	5.29	16.32	8.94	-248	0.652	0.5	1.22	0.418
09:20	5.43	16.37	8.96	-253	0.665	0.4	1.11	0.426
09:25	5.55	16.39	9.01	-251	0.668	0.4	1.09	0.429

Sampling Information:		4 - 100 ml ambers		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8270	SVOC PAH's	6 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX	2 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 9012	Total Cyanide			
<b>FD-1021</b>		Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>	
Sample ID: <b>MW-10R-1021</b>	Duplicate? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ship to Pace	<input type="checkbox"/>	
Sample Time: <u>09:25</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Laboratory: Pace Analytical	Greensburg, PA	
Comments/Notes:				

Sampling Personnel: G. ERNST  
Job Number: 0603275-136690-221  
Well Id. MW-11

Date: 10/20/21  
Weather: clear 60°s  
Time In: 1005 Time Out: 1050

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>3.73</u>	
Depth to Bottom:	(feet)	<u>6.51</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>2.78</u>	
Volume of Water in Well:	(gal)	<u>0.44</u>	
Three Well Volumes:	(gal)	<u>1.33</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments: ☐

#### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐  
Sampling Method: Bailer ☐ Peristaltic ☒  
Average Pumping Rate: (ml/min) 200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2.0 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1010</u>	<u>3.87</u>	<u>19.25</u>	<u>7.36</u>	<u>-179</u>	<u>0.002</u>	<u>119</u>	<u>7.54</u>	<u>0.001</u>
<u>1015</u>	<u>4.11</u>	<u>18.74</u>	<u>7.47</u>	<u>-195</u>	<u>1.49</u>	<u>552</u>	<u>1.58</u>	<u>0.958</u>
<u>1020</u>	<u>4.23</u>	<u>18.22</u>	<u>7.06</u>	<u>-215</u>	<u>1.50</u>	<u>263</u>	<u>0.95</u>	<u>0.965</u>
<u>1025</u>	<u>4.27</u>	<u>18.21</u>	<u>6.92</u>	<u>-219</u>	<u>1.54</u>	<u>127</u>	<u>0.83</u>	<u>0.981</u>
<u>1030</u>	<u>4.29</u>	<u>18.24</u>	<u>6.86</u>	<u>-219</u>	<u>1.54</u>	<u>108</u>	<u>0.77</u>	<u>0.986</u>
<u>1035</u>	<u>4.29</u>	<u>18.37</u>	<u>6.82</u>	<u>-218</u>	<u>1.53</u>	<u>61.4</u>	<u>0.72</u>	<u>0.979</u>
<u>1040</u>	<u>4.30</u>	<u>18.45</u>	<u>6.79</u>	<u>-218</u>	<u>1.53</u>	<u>21.4</u>	<u>0.69</u>	<u>0.979</u>

#### Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's  
EPA SW-846 Method 8260 VOC's BTEX  
EPA SW-846 Method 9012 Total Cyanide

2 - 100 ml ambers Yes ☒ No ☐  
3 - 40 ml vials Yes ☒ No ☐  
1 - 250 ml plastic Yes ☒ No ☐

Sample ID: MW-11-1021 Duplicate? Yes ☐ No ☒  
Sample Time: 1045 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒  
Ship to Pace ☐

Laboratory: Pace Analytical  
Greensburg, PA

Comments/Notes: ☐

Sampling Personnel: G. ERNSI  
Job Number: 0603275-136690-221  
Well Id. MW-12R

Date: 12/20/21  
Weather: CLEAR 50°S  
Time In: 0910 Time Out: 1005

Well Information		TOC	Other
Depth to Water:	(feet)	9.19	
Depth to Bottom:	(feet)	21.40	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	12.21	
Volume of Water in Well:	(gal)	1.95	
Three Well Volumes:	(gal)	5.86	

Well Type: Flushmount ☒ Stick-Up ☐

Well Locked: Yes ☒ No ☐

Measuring Point Marked: Yes ☒ No ☐

Well Material: PVC ☒ SS ☐ Other: \_\_\_\_\_

Well Diameter: 1" ☐ 2" ☒ Other: \_\_\_\_\_

Comments: \_\_\_\_\_

Purging Information		Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>			
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/>			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>			
Average Pumping Rate:	(ml/min)	200				
Duration of Pumping:	(min)	30				
Total Volume Removed:	(gal)	1.5				
Did well go dry?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Horiba U-52 Water Quality Meter Used?			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

	1" ID	2" ID	4" ID	6" ID
gal./ft. of water	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

[illegible]

<b>Sampling Information:</b>			
EPA SW-846 Method 8270	SVOC PAH's	2 - 100 ml ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <b>MW-12R-1021</b>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <b>10:00</b>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ship to Pace	<input type="checkbox"/>
Comments/Notes:		Laboratory: Pace Analytical Greensburg, PA	



National Grid  
King Street Non-Owned Former MGP Site  
Ogdensburg, New York

Sampling Personnel: KC

Job Number: 0603275-136690-221

Well Id. **MW-14R**

Date: 10/20/24

Weather: Sm 60

Time In: 11:25

Time Out: 12:00

### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>0.00</u>	
Depth to Bottom:	(feet)	<u>50.80</u>	
Depth to Product:	(feet)	<u>—</u>	
Length of Water Column:	(feet)	<u>50.80</u>	
Volume of Water in Well:	(gal)	<u>8.12</u>	
Three Well Volumes:	(gal)	<u>24.36</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments: ☐

### Purging Information

Purging Method:

Tubing/Bailer Material:

Sampling Method:

Average Pumping Rate: (ml/min) 2.0

Duration of Pumping: (min) 30

Total Volume Removed: (gal) 2

Did well go dry? Yes ☐ No ☒

Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Bailer ☐

Peristaltic ☒

Grundfos Pump ☐

Teflon ☐

Stainless St. ☐

Polyethylene ☒

Bailer ☐

Peristaltic ☒

Grundfos Pump ☐

### Conversion Factors

gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47

1 gallon=3.785L=3785mL=1337cu. feet

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>11:25</u>	<u>0.00</u>	<u>16.07</u>	<u>7.37</u>	<u>-310</u>	<u>0.676</u>	<u>3.3</u>	<u>0.84</u>	<u>0.423</u>
<u>11:30</u>	<u>0.00</u>	<u>14.05</u>	<u>7.50</u>	<u>-320</u>	<u>0.613</u>	<u>3.1</u>	<u>0.61</u>	<u>0.397</u>
<u>11:35</u>	<u>0.00</u>	<u>13.90</u>	<u>7.33</u>	<u>-332</u>	<u>0.613</u>	<u>3.0</u>	<u>0.59</u>	<u>0.393</u>
<u>11:40</u>	<u>0.00</u>	<u>13.61</u>	<u>7.20</u>	<u>-334</u>	<u>0.615</u>	<u>1.5</u>	<u>0.57</u>	<u>0.394</u>
<u>11:45</u>	<u>0.00</u>	<u>13.51</u>	<u>7.14</u>	<u>-335</u>	<u>0.612</u>	<u>1.2</u>	<u>0.55</u>	<u>0.397</u>
<u>11:50</u>	<u>0.00</u>	<u>13.36</u>	<u>7.12</u>	<u>-335</u>	<u>0.613</u>	<u>1.0</u>	<u>0.54</u>	<u>0.397</u>
<u>11:55</u>	<u>0.00</u>	<u>13.31</u>	<u>7.12</u>	<u>-335</u>	<u>0.612</u>	<u>1.0</u>	<u>0.53</u>	<u>0.391</u>

### Sampling Information:

EPA SW-846 Method 8270

EPA SW-846 Method 8260

EPA SW-846 Method 9012

SVOC PAH's

VOC's BTEX

Total Cyanide

2 - 100 ml ambers

3 - 40 ml vials

1 - 250 ml plastic

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Sample ID: **MW-14R-1021**

Sample Time: 11:55

Duplicate? Yes ☐ No ☒

MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒

Ship to Pace ☐

Comments/Notes:

Laboratory: Pace Analytical  
Greensburg, PA

<b>Sampling Information:</b>			
EPA SW-846 Method 8270	SVOC PAH's	2 - 100 ml ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <b>MW-15-1021</b>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped:	Pace Courier Pickup <input checked="" type="checkbox"/>
Sample Time: <b>12:35 / 10/20</b>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Ship to Pace <input type="checkbox"/>
Comments/Notes:		Laboratory:	Pace Analytical Greensburg, PA

Sampling Personnel: Peter Lynn  
Job Number: 0603275-136690-221  
Well Id. MW-15RS

Date: 10/20/21  
Weather: Sunny 55°  
Time In: 80909 Time Out: 0955

Well Information			TOC	Other
Depth to Water:	(feet)	8.50		
Depth to Bottom:	(feet)	23.65		
Depth to Product:	(feet)	-		
Length of Water Column:	(feet)	15.15		
Volume of Water in Well:	(gal)	2.42		
Three Well Volumes:	(gal)	7.27		

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: \_\_\_\_\_  
Well Diameter: 1" ☒ 2" ☐ Other: \_\_\_\_\_  
Comments: \_\_\_\_\_

Purging Information			Conversion Factors				
Purging Method:	Bailer	<input type="checkbox"/>	Peristaltic	<input checked="" type="checkbox"/>	Grundfos Pump	<input type="checkbox"/>	
Tubing/Bailer Material:	Teflon	<input type="checkbox"/>	Stainless St.	<input type="checkbox"/>	Polyethylene	<input checked="" type="checkbox"/>	
Sampling Method:	Bailer	<input type="checkbox"/>	Peristaltic	<input checked="" type="checkbox"/>	Grundfos Pump	<input type="checkbox"/>	
Average Pumping Rate:	(ml/min)	200					
Duration of Pumping:	(min)	30					
Total Volume Removed:	(gal)	2					
Did well go dry?				Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Horiba U-52 Water Quality Meter Used?				Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

[illegible]

<b>Sampling Information:</b>			
EPA SW-846 Method 8270	SVOC PAH's	2 - 100 ml ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <b>MW-15RS-1021</b>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <b>0950</b>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ship to Pace	<input type="checkbox"/>
<b>Comments/Notes:</b>		Laboratory: Pace Analytical	
		Greensburg, PA	

Pace Analytical  
Greensburg, PA

Sampling Personnel: Peter Leger  
Job Number: 0603275-136690-221  
Well Id. MW-20R

Date: 10/20/21  
Weather: Sunny 60°  
Time In: 1137 Time Out: 1215

Well Information			TOC	Other
Depth to Water:	(feet)	<u>0.20</u>		
Depth to Bottom:	(feet)	<u>28.40</u>		
Depth to Product:	(feet)	<u>-</u>		
Length of Water Column:	(feet)	<u>28.20</u>		
Volume of Water in Well:	(gal)	<u>4.51</u>		
Three Well Volumes:	(gal)	<u>13.53</u>		

Well Type:	Flushmount <input checked="" type="checkbox"/>	Stick-Up <input type="checkbox"/>
Well Locked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Measuring Point Marked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Well Material:	PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Other: <input type="text"/>	
Well Diameter:	1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/> Other: <input type="text"/>	
Comments: <input type="text"/>		

Purging Information			Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	gal/ft.	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	of				
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min)	<u>200</u>	1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min)	<u>30</u>					
Total Volume Removed:	(gal)	<u>2</u>					
Did well go dry?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1140	1.34	18.04	7.34	-110	.703	29.6	0.71	.450
1145	2.57	17.71	7.22	-108	.709	22.4	0.62	.453
1150	4.03	17.59	7.17	-105	.706	22.8	0.60	.452
1155	5.43	17.38	7.14	-104	.703	21.2	0.62	.450
1200	6.33	17.39	7.14	-103	.703	20.8	0.59	.450
1205	7.23	17.15	7.12	-103	.704	17.8	0.57	.450
1210	8.10	17.04	7.10	-102	.704	17.5	0.56	.451

Sampling Information:			2 - 100 ml ambers			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
EPA SW-846 Method 8270	SVOC PAH's		3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX							
EPA SW-846 Method 9012	Total Cyanide							
Sample ID: <u>MW-20R-1021</u>	Duplicate?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped:	Pace Courier Pickup	<input checked="" type="checkbox"/>	Ship to Pace	<input type="checkbox"/>	
Sample Time: <u>1210</u>	MS/MSD?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Laboratory:	Pace Analytical		Greensburg, PA		
Comments/Notes: <input type="text"/>								

FILED (All 002005) 3 31 Mar 05 11:23 AM 2005



## **Appendix C – Data Usability Summary Report**

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Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201  
Blacksburg, VA 24060

T. 800.662.5067

January 28, 2022

Devin Shay  
Groundwater & Environmental Services, Syracuse  
6780 Northern Blvd., Suite 100  
East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid - Ogdensburg: Data Packages Pace  
Analytical Job No. **30416160**

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the April 2021 sampling event at the National Grid Ogdensburg site. Thirteen aqueous samples, a trip blank and a field duplicate were collected from the main site. These samples were processed for volatile organic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), cyanide and polycyclic aromatic hydrocarbons (PAHs). One trip blank was analyzed for volatiles with the samples. The trip blank is used to determine if there is BTEX contamination caused by transporting the samples.

Analytical methodologies are those of the USEPA with additional requirements of the NYSDEC ASP.

Complete NYSDEC Category B deliverables were included in the laboratory data package and all information required for validation of the data is present. This usability report is generated from review of the summary form information, and review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the National Grid generic QAPP, USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, and professional judgment, as affects the usability of the data. The following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate (MS/MSD) Correlations
- Field Duplicate Correlations
- Laboratory Control Sample (LCS)
- Preparation/Calibration Blanks
- Calibration/Low Level Standard Responses
- Instrumental Tunes
- Sample Quantitation and Identification

Table 1 – Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
MW-2R MW-5R MW-8R MW-9 MW-10R MW-11 MW-12R MW-15RS MW-17R FD	J+	Naphthalene	High LCS recovery
MW-2R MW-9 MW-11	J	Benzo(b)fluoranthene Benzo(k)fluoranthene	Co-elution of peaks
MW-8R	J-	Cyanide	Low MS/MSD recovery
MW-10R FD	J	Fluorene 2-methylnaphthalene	RPD exceeds maximum
MW-8R	J+	Acenaphthene	High MS/MSD recovery

In summary, sample results are usable as reported, with non-compliances noted.

The result for pH in all applicable samples was qualified by the laboratory as estimated due to the short hold time of 15 minutes.

The laboratory case narratives and sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report.

#### **BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP**

Sample holding times for groundwater and instrumental tune fragmentations are within acceptance ranges. Surrogate and internal standard recoveries are within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. An MS/MSD was analyzed using **MW-8R** as the matrix. All QC elements fell within project criteria, with the exception of the recovery and RPD for benzene. The original concentration reported for benzene was not less than the EPA recommended 4x the spiking concentration for usable calculations. Therefore, the data is not qualified by the low recovery and RPD exceedance and is usable as reported. . The blind field duplicate correlations of **MW-10R** were within the project specification of  $\leq 25\%$ .

The laboratory control spike reported high, out-of-specification recoveries for naphthalene, and all positive detections associated with the LCS are qualified as estimated, with a possible high bias.

#### **PAHs by EPA8270D/NYSDEC ASP**

Holding times are met. Instrumental tune fragmentations are within acceptance ranges. Blanks show no contamination. Surrogate recoveries were within criteria. Calibration standards, both

initial and continuing, show acceptable responses within analytical method protocols and validation guidelines.

The laboratory control spike recoveries and precision indicate the method is within laboratory control, with the exception of a high recovery for naphthalene. All positive detections are qualified as estimated, with a possible high bias. MS/MSD was analyzed using **MW-8R** as the matrix. All QC elements fell within project criteria, with the exception of acenaphthene, which recovered high. Acenaphthene in **MW-8R** is qualified as estimated with a possible high bias. . The blind field duplicate correlations of **MW-10R** were within the project specification of  $\leq 25\%$ , with the exception of fluorene and 2-methylnaphthalene. Both of these compounds in **MW-10R** are qualified as estimated with an indeterminate bias.

### **Cyanide by EPA 9012A/NYDESC ASP**

Holding times were met. Blanks show no contamination. Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines.

The laboratory control spike recoveries and precision indicate the method is within laboratory control. MS/MSDs were analyzed using **MW-8R**. Cyanide recovered low in the MS/MSD, and is qualified as estimated low in the sample. The blind field duplicate correlations of **MW-10R** were within project criteria. No data was qualified.

### **Precision**

Table 2 – Data Precision

Compound	MW-10R	FD	RPD
Acenaphthene	22.0	26.8	19.7
Acenaphthylene	31.6	38.2	18.9
Anthracene	0.89	0.90	1.1
Acenaphthene	22.0	26.8	19.7
Fluorene	9.7	12.9	28.3
2-Methylnaphthalene	6.4	8.9	32.7
Naphthalene	405	470	14.9
Phenanthrene	1.8	2.2	20.0
Benzene	1040	1050	1.0
Ethylbenzene	94.3	98.5	4.4
Toluene	171	153	11.1
Xylene, total	125	122	2.4
m&p-Xylene	82.5	84.5	2.4
o-Xylene	42.4	37.7	11.7
Cyanide	0.074	0.078	5.3

**Data Package Completeness**

Complete NYSDEC Category B deliverables were included in the laboratory data package, all information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Sincerely,

A handwritten signature in blue ink, appearing to read "B Janowiak", with a stylized flourish at the end.

Bonnie Janowiak, Ph.D.  
Senior Chemist, NRCC Certified

## SAMPLE SUMMARY

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30416160

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30416160001	MW-2(R)-0421	Water	04/15/21 14:30	04/19/21 09:45
30416160002	MW-5R(R)-0421	Water	04/15/21 13:55	04/19/21 09:45
30416160003	MW-8R-0421	Water	04/15/21 11:25	04/19/21 09:45
30416160004	MW-8R-MS-0421	Water	04/15/21 11:25	04/19/21 09:45
30416160005	MW-8R-MSD-0421	Water	04/15/21 11:25	04/19/21 09:45
30416160006	MW-9-0421	Water	04/15/21 10:35	04/19/21 09:45
30416160007	MW-10R-0421	Water	04/15/21 10:00	04/19/21 09:45
30416160008	MW-11-0421	Water	04/15/21 13:10	04/19/21 09:45
30416160009	MW-12R-0421	Water	04/15/21 12:25	04/19/21 09:45
30416160010	MW-14R-0421	Water	04/15/21 10:45	04/19/21 09:45
30416160011	MW-15-0421	Water	04/15/21 13:10	04/19/21 09:45
30416160012	MW-15RS-0421	Water	04/15/21 13:50	04/19/21 09:45
30416160013	MW-17R-0421	Water	04/15/21 10:00	04/19/21 09:45
30416160014	MW-19R-0421	Water	04/15/21 12:25	04/19/21 09:45
30416160015	MW-20R-0421	Water	04/15/21 11:35	04/19/21 09:45
30416160016	FD-0421	Water	04/15/21 00:00	04/19/21 09:45
30416160017	Trip Blanks	Water	04/15/21 00:00	04/19/21 09:45

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30416160

**Method:** EPA 8270D by SIM

**Description:** 8270D PAH SIM Reduced Volume

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** April 28, 2021

### General Information:

16 samples were analyzed for EPA 8270D by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 444465

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2145684)
- Naphthalene

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 444465

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30416160003

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MSD (Lab ID: 2145686)
- Acenaphthene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30416160

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**Method:** EPA 8270D by SIM

**Description:** 8270D PAH SIM Reduced Volume

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** April 28, 2021

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30416160

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** April 28, 2021

### General Information:

17 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 444389

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30416160003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2145169)
  - Benzene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2145170)
  - Benzene

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30416160

**Method:** EPA 9012B

**Description:** 9012B Cyanide, Total

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** April 28, 2021

### General Information:

16 samples were analyzed for EPA 9012B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 9012B with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 444477

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30415885005,30415885008

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2145740)
  - Cyanide
- MSD (Lab ID: 2145741)
  - Cyanide

QC Batch: 444476

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30416160003,30416160004

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2145732)
  - Cyanide
- MS (Lab ID: 2145734)
  - Cyanide
- MSD (Lab ID: 2145733)
  - Cyanide
- MSD (Lab ID: 2145735)
  - Cyanide

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201  
Blacksburg, VA 24060

T. 800.662.5067

January 28, 2022

Devin Shay  
Groundwater & Environmental Services, Syracuse  
6780 Northern Blvd., Suite 100  
East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid - Ogdensburg: Data Packages Pace  
Analytical Job No. 30446758

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the October 2021 sampling event at the National Grid Ogdensburg site. Collected samples included twelve aqueous samples, a trip blank and a field duplicate from the main site. The samples were processed for volatile organic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), cyanide and polycyclic aromatic hydrocarbons (PAHs). The trip blank was analyzed for volatiles with the samples. The trip blank is used to determine if there is BTEX contamination caused by transporting the samples.

Analytical methodologies are those of the USEPA with additional requirements of the NYSDEC ASP.

Complete NYSDEC Category B deliverables were included in the laboratory data package and all information required for validation of the data is present. This usability report is generated from review of the summary form information, and review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the National Grid generic QAPP, USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, and professional judgment, as affects the usability of the data. The following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate (MS/MSD) Correlations
- Field Duplicate Correlations
- Laboratory Control Sample (LCS)
- Preparation/Calibration Blanks
- Calibration/Low Level Standard Responses
- Instrumental Tunes
- Sample Quantitation and Identification

All of the items were determined to be acceptable for the DUSR level review. In summary, sample results are usable.

The laboratory case narratives and sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report.

Table 1 – Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
<b>MW-8R-1021</b>	J-	Cyanide	Low MS/MSD recoveries

J-/JJ-: estimated detect/estimated non-detect with a possible low bias

### **BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP**

Sample holding times for groundwater and instrumental tune fragmentations are within acceptance ranges. Surrogate and internal standard recoveries are within required limits, with the exception of 1,2-dichloroethane-d4 which had low recoveries in the calibration and in the samples. This is a surrogate compound, and the low recovery in the calibration indicates that there was an instrumental issue with the compound, rather than an extraction inefficiency. The low recoveries therefore do not indicate a failure of the method to accurately determine concentrations of COCs, and the data is not qualified. Calibrations standards show acceptable responses within analytical protocol and validation action limits with the exception of the above surrogate calibration response.

An MS/MSD was analyzed using **MW-8R-1021** as the matrix. All QC elements fell within project criteria. The blind field duplicate correlations of **MW-10R-1021** were within the project specification of  $\leq 25\%$ .

Table 2: VOCs Precision Calculations

Compound	MW-10R	FD	RPD
Benzene	1790	1730	3.4
Ethylbenzene	138	143	3.6
Toluene	197	200	1.5
Xylene (Total)	161	164	1.8
m&p-Xylenes	103	104	1.0
o-Xylene	58	60.2	3.7

µg/L-microgram per liter

RPD - relative percent difference

### **Cyanide by EPA 9012A/NYDESC ASP**

Holding times were met. Blanks show no contamination. Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines.

The laboratory control spike recoveries and precision indicate the method is within laboratory control. An MS/MSDs were analyzed using **MW-8R-1021** where the recoveries were below criteria (77%, 76%). The cyanide data for this sample is qualified as estimated with a possible low bias. The blind field duplicate correlations of **MW-10R-1021** were within project criteria. No data was qualified.

**Table 3: Cyanide Precision Calculations**

Compound	MW-10R	FD	RPD
Cyanide	0.061	0.066	7.9
<div> <div>µg/L-microgram per liter</div> <div>RPD - relative percent difference</div> </div>			

### **PAHs by EPA8270D/NYSDEC ASP**

Holding times were met. Instrumental tune fragmentations are within acceptance ranges. Blanks no above RL concentrations.

Surrogates were within specification for all samples. Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines. Samples with high concentrations were run at dilution to allow accurate quantification. Some detection limits are elevated.

The laboratory control spike recoveries and precision indicate the method is within laboratory control. Matrix spike and matrix spike recoveries were within laboratory specified criteria, with the exception of the recovery for naphthalene. As the original concentration >>4x the spiking concentration, the recovery does not accurately reflect the method efficacy, and no qualifications are required. The blind field duplicate correlations of **MW-10R** were within project specification of  $RPD \leq 25\%$ .

**Table 4: PAH Precision Calculations**

Compound	MW-10R	FD	RPD
Acenaphthene	29.8	33	10.2
Acenaphthylene	34.1	38.8	12.9
Fluorene	13.2	14.3	8.0
2-Methylnaphthalene	7.4	8.4	12.7
Naphthalene	653	738	12.2
Phenanthrene	2.3	2.5	8.3

**Data Package Completeness**

Complete NYSDEC Category B deliverables were included in the laboratory data package, all information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Sincerely,

A handwritten signature in blue ink, appearing to read "B Janowiak", with a long horizontal flourish extending to the right.

Bonnie Janowiak, Ph.D.  
Senior Chemist, NRCC Certified

## SAMPLE SUMMARY

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30446758

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30446758001	MW-2(R)-1021	Water	10/20/21 12:00	10/22/21 09:30
30446758002	MW-5R(R)-1021	Water	10/20/21 11:30	10/22/21 09:30
30446758003	MW-8R-1021	Water	10/20/21 10:30	10/22/21 09:30
30446758004	MW-8R-MS-1021	Water	10/20/21 10:30	10/22/21 09:30
30446758005	MW-8R-MSD-1021	Water	10/20/21 10:30	10/22/21 09:30
30446758006	MW-9-1021	Water	10/20/21 09:40	10/22/21 09:30
30446758007	MW-10R-1021	Water	10/20/21 09:25	10/22/21 09:30
30446758008	MW-11-1021	Water	10/20/21 10:45	10/22/21 09:30
30446758009	MW-12R-1021	Water	10/20/21 10:00	10/22/21 09:30
30446758010	MW-14R-1021	Water	10/20/21 11:55	10/22/21 09:30
30446758011	MW-15-1021	Water	10/20/21 10:20	10/22/21 09:30
30446758012	MW-15RS-1021	Water	10/20/21 09:50	10/22/21 09:30
30446758013	MW-17R-1021	Water	10/20/21 11:20	10/22/21 09:30
30446758014	MW-19R-1021	Water	10/20/21 11:25	10/22/21 09:30
30446758015	MW-20R-1021	Water	10/20/21 12:10	10/22/21 09:30
30446758016	FD-1021	Water	10/20/21 00:00	10/22/21 09:30
30446758017	Trip Blanks	Water	10/20/21 12:00	10/22/21 09:30

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30446758

**Method:** EPA 8270D by SIM

**Description:** 8270D PAH SIM Reduced Volume

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 05, 2021

### General Information:

16 samples were analyzed for EPA 8270D by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

ED: Due to the extract's physical characteristics, the analysis was performed at dilution.

- FD-1021 (Lab ID: 30446758016)
- MW-10R-1021 (Lab ID: 30446758007)
- MW-12R-1021 (Lab ID: 30446758009)
- MW-2(R)-1021 (Lab ID: 30446758001)
- MW-5R(R)-1021 (Lab ID: 30446758002)
- MW-9-1021 (Lab ID: 30446758006)

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 469580

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MW-9-1021 (Lab ID: 30446758006)
- Terphenyl-d14 (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30446758

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**Method:** EPA 8270D by SIM

**Description:** 8270D PAH SIM Reduced Volume

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 05, 2021

QC Batch: 469580

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30446758003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2267435)
  - Naphthalene
- MSD (Lab ID: 2267436)
  - Naphthalene

**Additional Comments:**

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30446758

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 05, 2021

### General Information:

17 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 470688

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 2272248)
  - 1,2-Dichloroethane-d4 (S)
- FD-1021 (Lab ID: 30446758016)
  - 1,2-Dichloroethane-d4 (S)
- LCS (Lab ID: 2272249)
  - 1,2-Dichloroethane-d4 (S)
- MS (Lab ID: 2272250)
  - 1,2-Dichloroethane-d4 (S)
- MSD (Lab ID: 2272251)
  - 1,2-Dichloroethane-d4 (S)
- MW-10R-1021 (Lab ID: 30446758007)
  - 1,2-Dichloroethane-d4 (S)
- MW-11-1021 (Lab ID: 30446758008)
  - 1,2-Dichloroethane-d4 (S)
- MW-12R-1021 (Lab ID: 30446758009)
  - 1,2-Dichloroethane-d4 (S)
- MW-14R-1021 (Lab ID: 30446758010)
  - 1,2-Dichloroethane-d4 (S)
- MW-15-1021 (Lab ID: 30446758011)
  - 1,2-Dichloroethane-d4 (S)
- MW-15RS-1021 (Lab ID: 30446758012)
  - 1,2-Dichloroethane-d4 (S)
- MW-17R-1021 (Lab ID: 30446758013)
  - 1,2-Dichloroethane-d4 (S)
- MW-19R-1021 (Lab ID: 30446758014)
  - 1,2-Dichloroethane-d4 (S)
- MW-2(R)-1021 (Lab ID: 30446758001)
  - 1,2-Dichloroethane-d4 (S)
- MW-20R-1021 (Lab ID: 30446758015)
  - 1,2-Dichloroethane-d4 (S)

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30446758

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 05, 2021

QC Batch: 470688

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- MW-5R(R)-1021 (Lab ID: 30446758002)
  - 1,2-Dichloroethane-d4 (S)
- MW-8R-1021 (Lab ID: 30446758003)
  - 1,2-Dichloroethane-d4 (S)
- MW-8R-MS-1021 (Lab ID: 30446758004)
  - 1,2-Dichloroethane-d4 (S)
- MW-8R-MSD-1021 (Lab ID: 30446758005)
  - 1,2-Dichloroethane-d4 (S)
- MW-9-1021 (Lab ID: 30446758006)
  - 1,2-Dichloroethane-d4 (S)
- Trip Blanks (Lab ID: 30446758017)
  - 1,2-Dichloroethane-d4 (S)

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 470688

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.

- BLANK (Lab ID: 2272248)
  - 1,2-Dichloroethane-d4 (S)
- FD-1021 (Lab ID: 30446758016)
  - 1,2-Dichloroethane-d4 (S)
- LCS (Lab ID: 2272249)
  - 1,2-Dichloroethane-d4 (S)
- MS (Lab ID: 2272250)
  - 1,2-Dichloroethane-d4 (S)
- MSD (Lab ID: 2272251)
  - 1,2-Dichloroethane-d4 (S)
- MW-10R-1021 (Lab ID: 30446758007)
  - 1,2-Dichloroethane-d4 (S)
- MW-11-1021 (Lab ID: 30446758008)
  - 1,2-Dichloroethane-d4 (S)
- MW-12R-1021 (Lab ID: 30446758009)
  - 1,2-Dichloroethane-d4 (S)
- MW-14R-1021 (Lab ID: 30446758010)
  - 1,2-Dichloroethane-d4 (S)
- MW-15-1021 (Lab ID: 30446758011)
  - 1,2-Dichloroethane-d4 (S)
- MW-15RS-1021 (Lab ID: 30446758012)
  - 1,2-Dichloroethane-d4 (S)
- MW-17R-1021 (Lab ID: 30446758013)

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30446758

**Method:** EPA 8260C

**Description:** 8260C MSV

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 05, 2021

QC Batch: 470688

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.

- 1,2-Dichloroethane-d4 (S)
- MW-19R-1021 (Lab ID: 30446758014)
  - 1,2-Dichloroethane-d4 (S)
- MW-2(R)-1021 (Lab ID: 30446758001)
  - 1,2-Dichloroethane-d4 (S)
- MW-5R(R)-1021 (Lab ID: 30446758002)
  - 1,2-Dichloroethane-d4 (S)
- MW-8R-1021 (Lab ID: 30446758003)
  - 1,2-Dichloroethane-d4 (S)
- MW-8R-MS-1021 (Lab ID: 30446758004)
  - 1,2-Dichloroethane-d4 (S)
- MW-8R-MSD-1021 (Lab ID: 30446758005)
  - 1,2-Dichloroethane-d4 (S)
- MW-9-1021 (Lab ID: 30446758006)
  - 1,2-Dichloroethane-d4 (S)
- Trip Blanks (Lab ID: 30446758017)
  - 1,2-Dichloroethane-d4 (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 470688

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30446758003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MSD (Lab ID: 2272251)
  - Ethylbenzene
  - Toluene
  - m&p-Xylene
  - o-Xylene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2272251)
  - Toluene
  - m&p-Xylene
  - o-Xylene

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30446758

**Method:** EPA 9012B

**Description:** 9012B Cyanide, Total

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 05, 2021

### General Information:

16 samples were analyzed for EPA 9012B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 9012B with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 470157

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30445664004

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2269582)
  - Cyanide
- MSD (Lab ID: 2269583)
  - Cyanide

QC Batch: 470401

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30446758003,30447620003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2271020)
  - Cyanide
- MS (Lab ID: 2271022)
  - Cyanide
- MSD (Lab ID: 2271021)
  - Cyanide

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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