

December 16, 2020

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 2020.

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 2020 (June, 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

December 2020

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:  
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East Syracuse, NY 13057  
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GES Project:  
0603220.136690.221

Date:  
December 16, 2020

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

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Devin T. Shay, PG  
Program Manager / Principal Hydrogeologist



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## 1 Introduction

This Semi-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 July and October 2020 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 July 14, 2020 and October 1, 2020 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 July 14, 2020, is included on Figure 2.

Groundwater generally flows to the north from the Site toward the St. Lawrence River. Groundwater elevations ranged from 248.40 feet above sea level (asl; well MW-15) to 256.42 feet asl (well MW-10R). 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 July 14, 2020 and October 1, 2020 (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 Figure 3. 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 July and October 2020 sampling event. In July 2020, 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, MW-15, and MW-15RS during the July 2020 event. In October 2020, 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 2020.



### **3 Semi-Annual Site-Wide Inspections**

The semi-annual site-wide inspections were conducted on June 23, July 14, and October 1, 2020. The Site Inspection Forms are presented in Appendix A. In general, the Site is in compliance.

### **4 Recommendations**

#### **4.1 Recommendations**

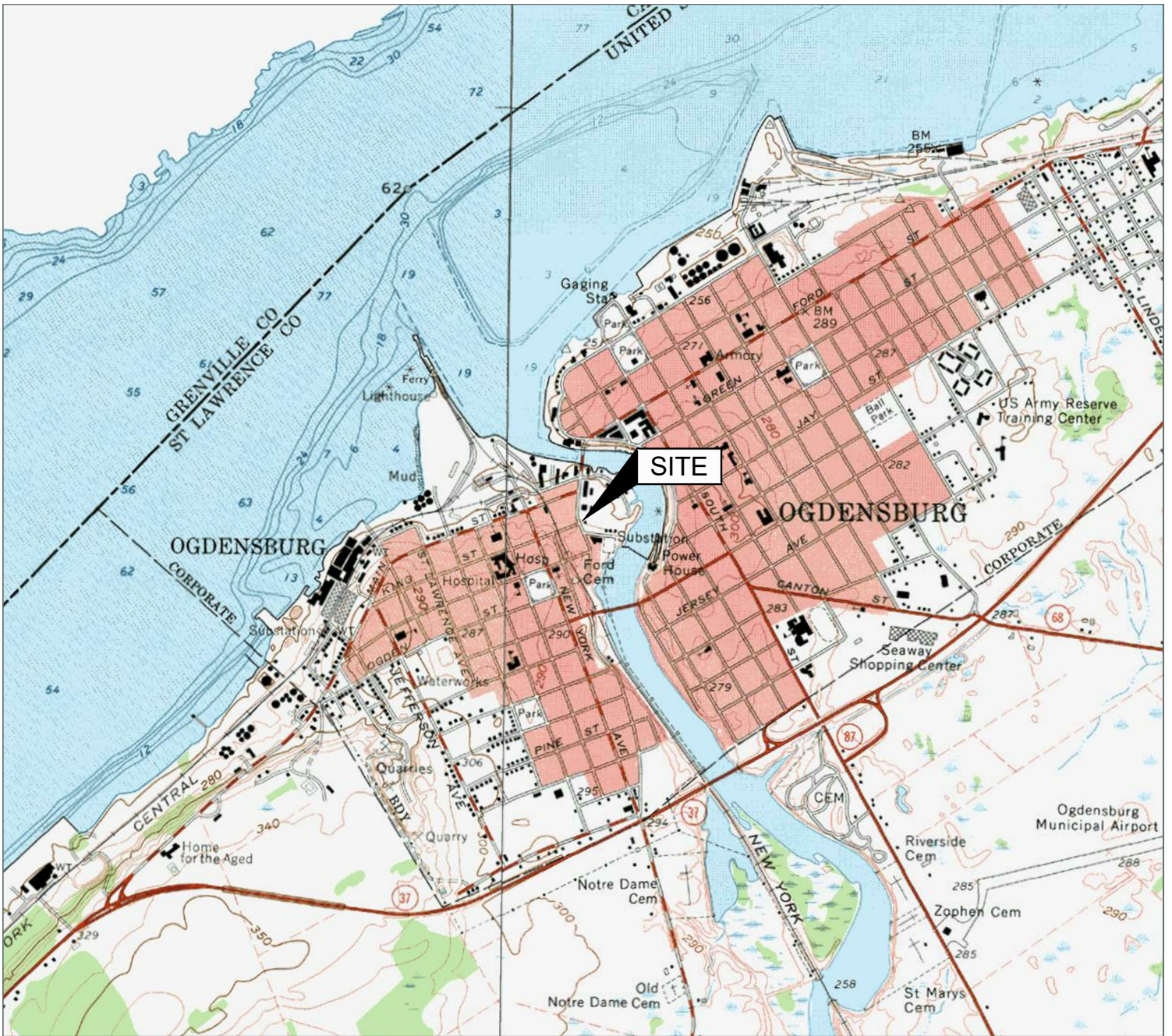
At this time, National Grid recommends continuing the annual monitoring activities. The next annual groundwater sampling event would be in the spring 2021. Semi-Annual site-wide inspections are required; however, for internal security purposes, National Grid will continue to conduct quarterly site-wide inspections.



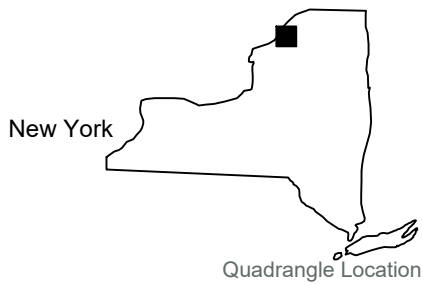
## Figures

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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  
 1



Scale In Feet

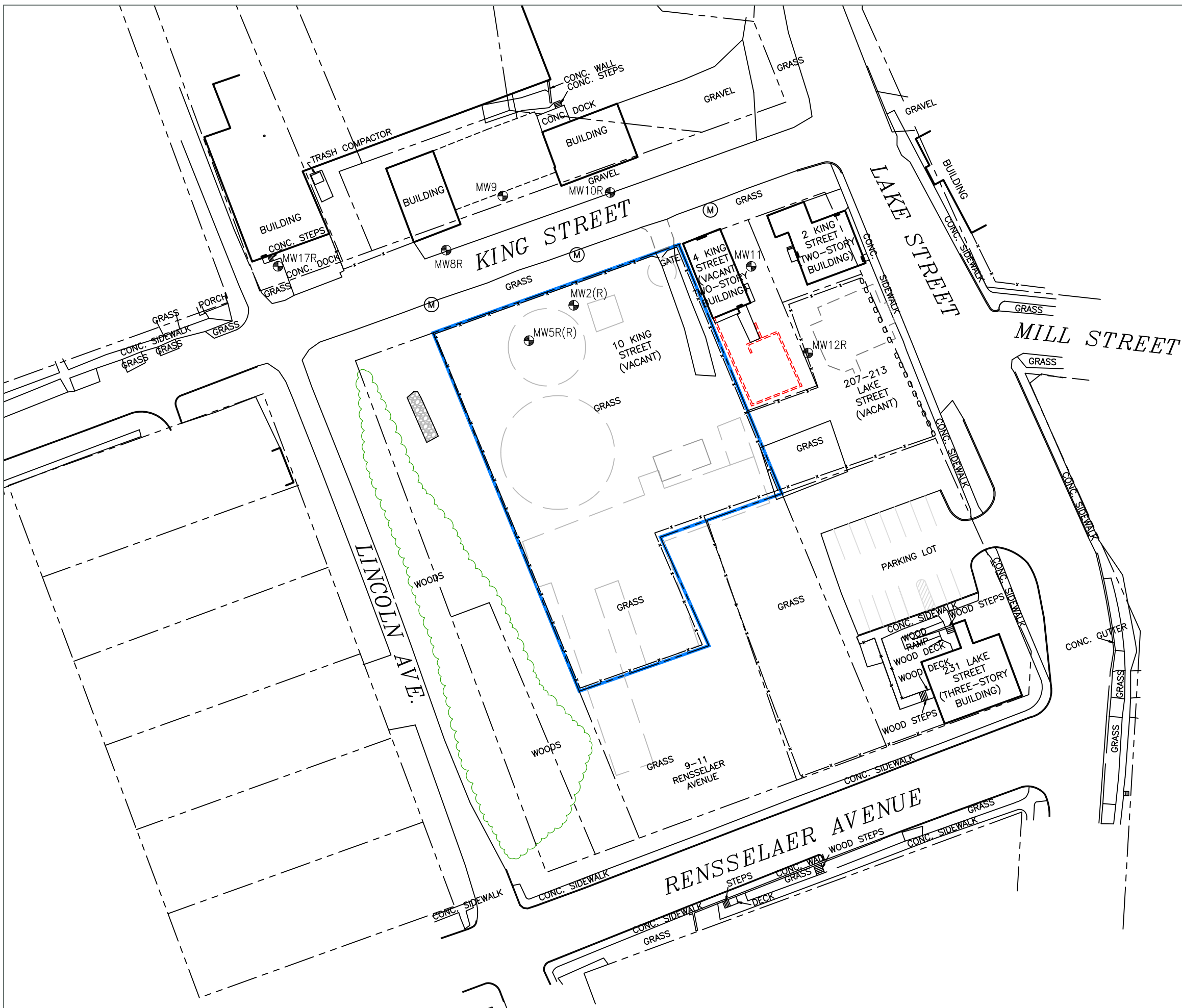


Groundwater & Environmental Services, Inc.

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**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  
2



Scale In Feet  
0 60

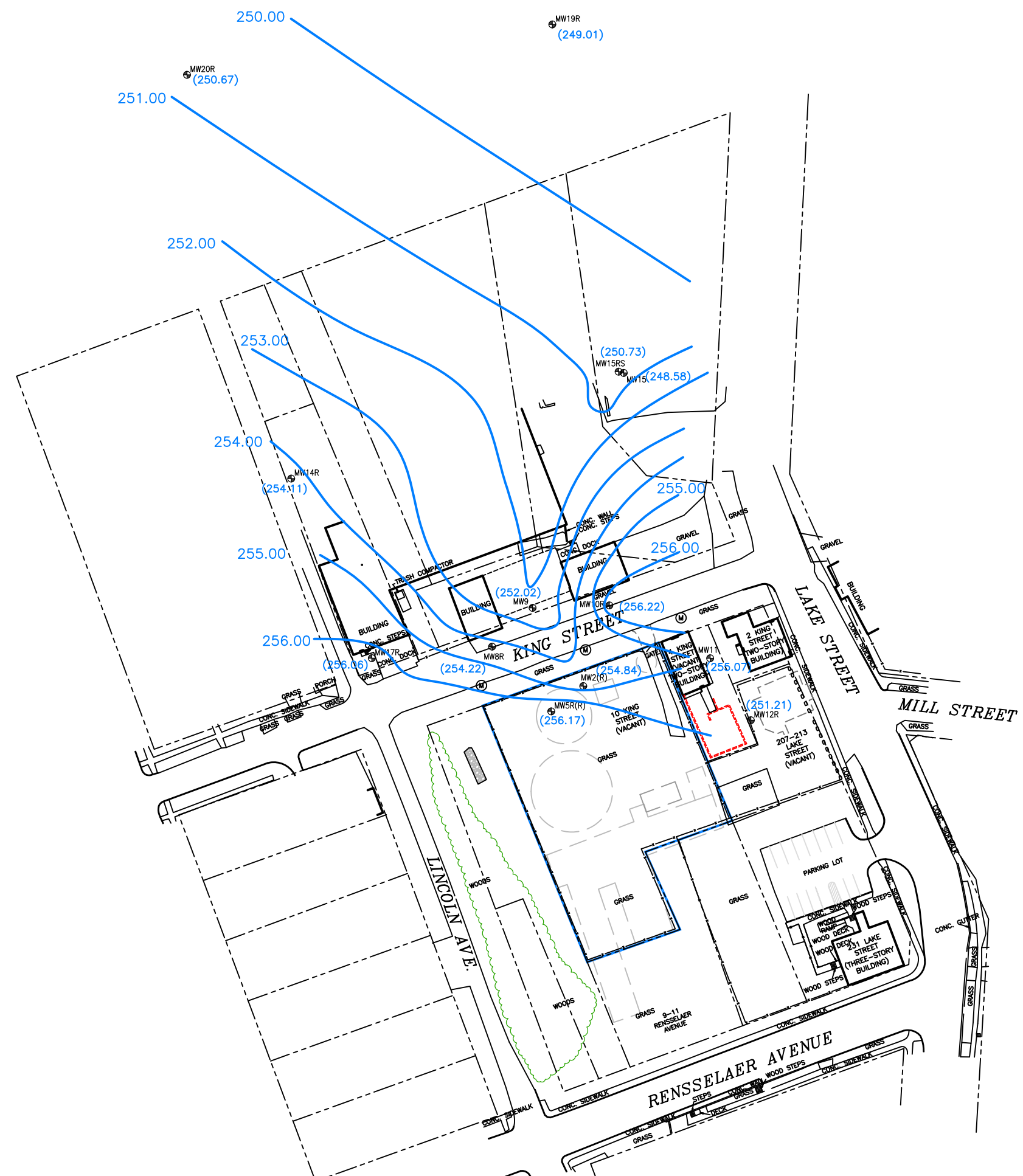


Groundwater & Environmental Services, Inc.

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### LEGEND

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



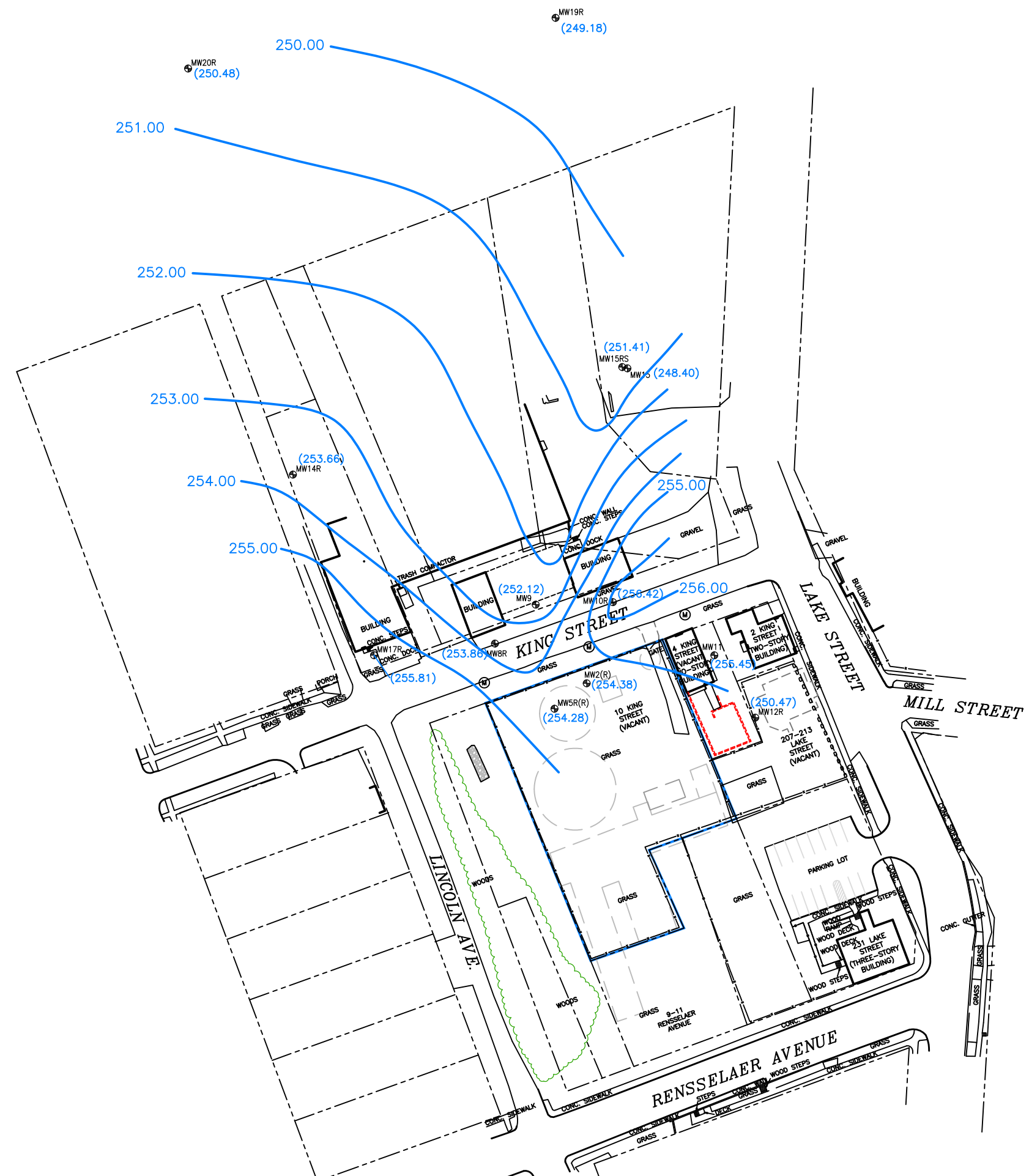
### NOTE:

MW12R AND MW15 WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map June 23, 2020	
National Grid 10 King Street Ogdensburg, New York	
Drawn W.G.S. Designed	Date 11/19/20 Figure 3
Approved	 Scale In Feet   <small>Groundwater &amp; Environmental Services, Inc.</small>

### LEGEND

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

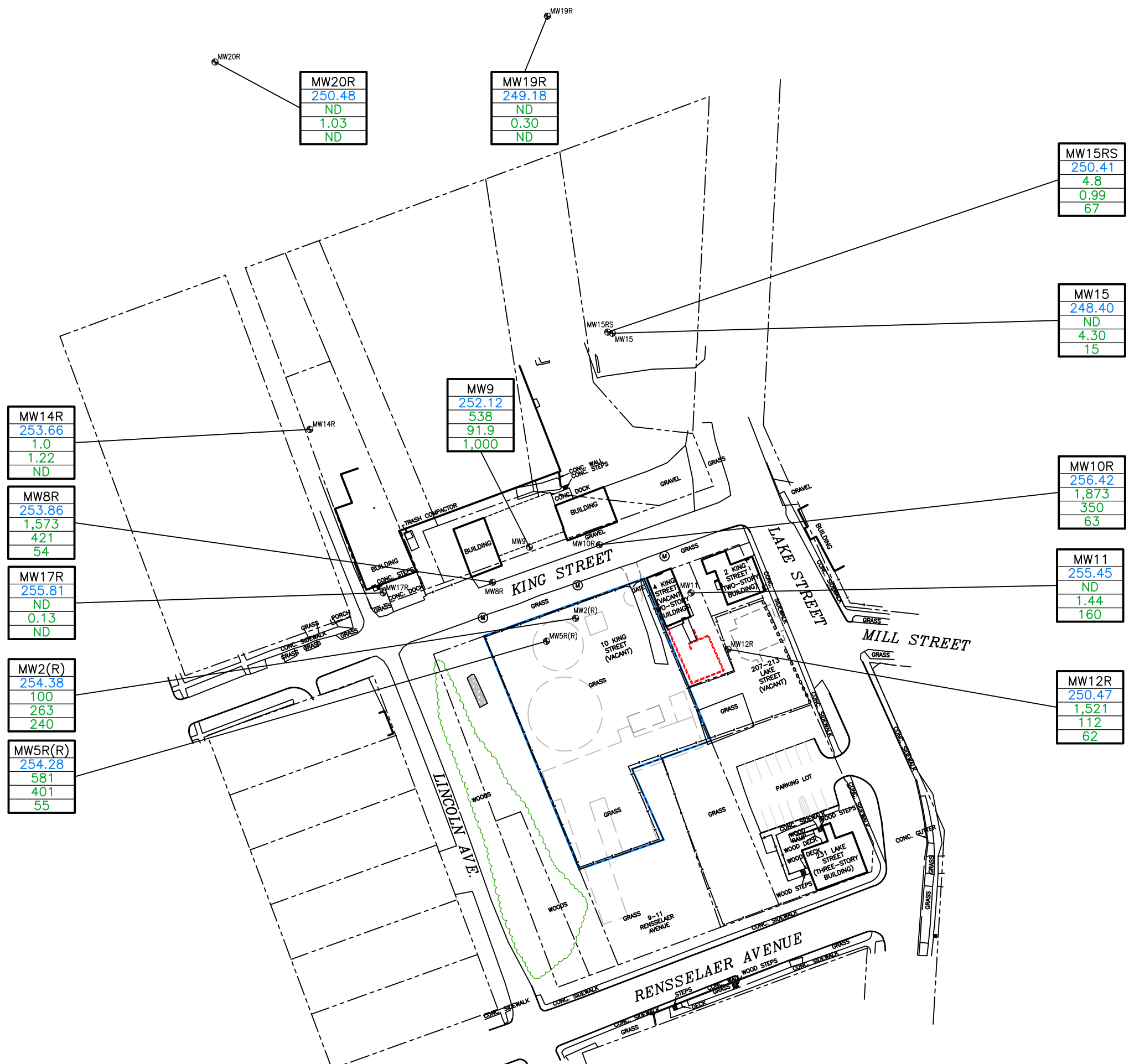


**NOTE:**  
 MW12R AND MW15 WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map July 14, 2020	
National Grid 10 King Street Ogdensburg, New York	
Drawn W.G.S. Designed  Approved	Date 11/19/20 Figure 4
Scale In Feet 0                      100	
Groundwater & Environmental Services, Inc.	

**LEGEND**

- PROPERTY BOUNDARY
  - x — FENCE
  - ⊙ UTILITY MANHOLE
  - ⊕ MONITORING WELL
- |               |                              |
|---------------|------------------------------|
| <b>MW2(R)</b> | WELL IDENTIFICATION          |
| 254.38        | GROUNDWATER ELEVATION (feet) |
| 100           | BTEX CONCENTRATION (ug/L)    |
| 263           | PAHs CONCENTRATION (ug/L)    |
| 240           | CYANIDE CONCENTRATION (ug/L) |
- ug/L MICROGRAMS PER LITER
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- ND NOT DETECTED



Groundwater Monitoring Map  
July 14, 2020

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed

Approved

Date  
9/15/20  
Figure  
5

Scale In Feet  
0 100

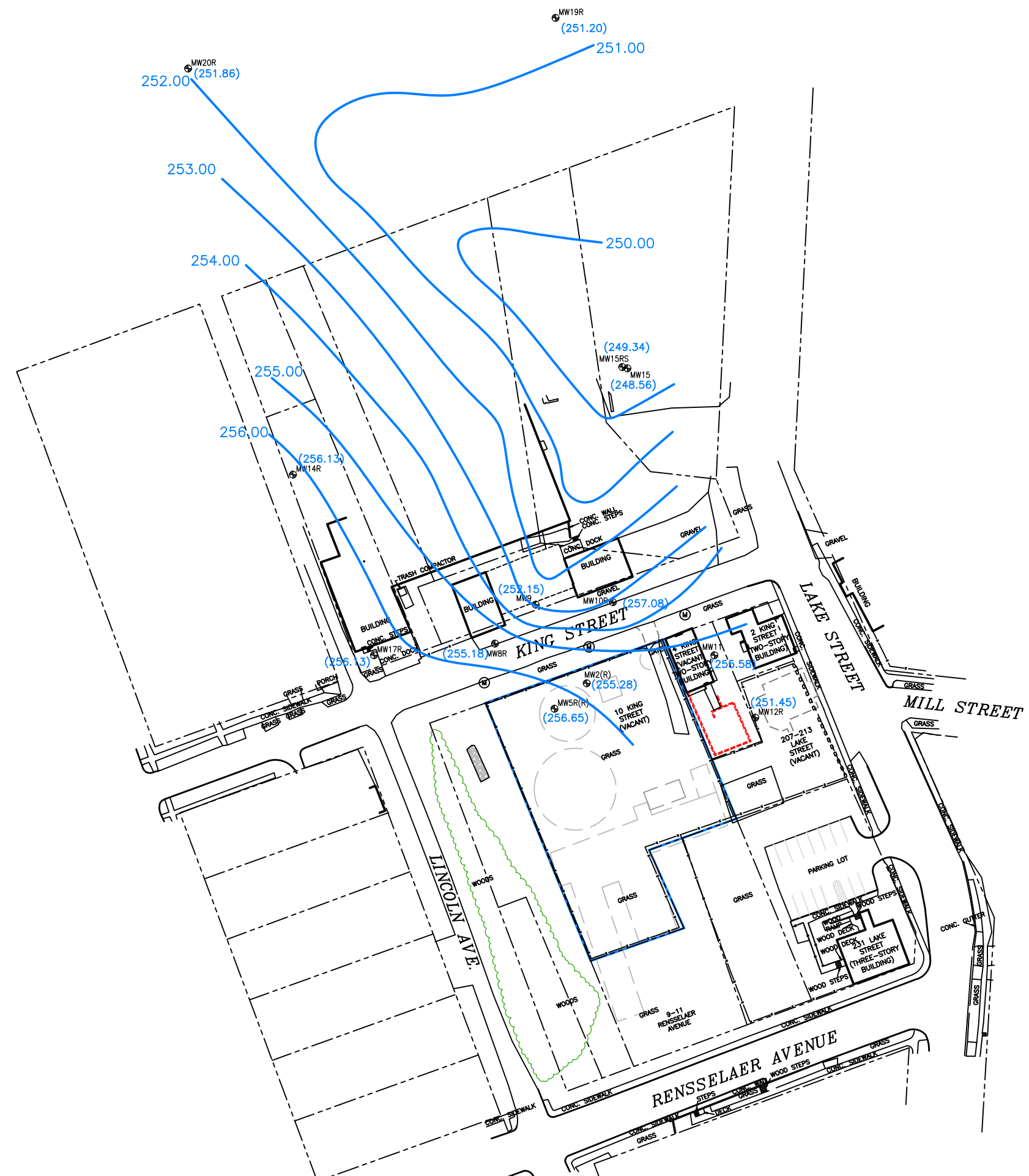
Groundwater & Environmental Services, Inc.

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### LEGEND

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

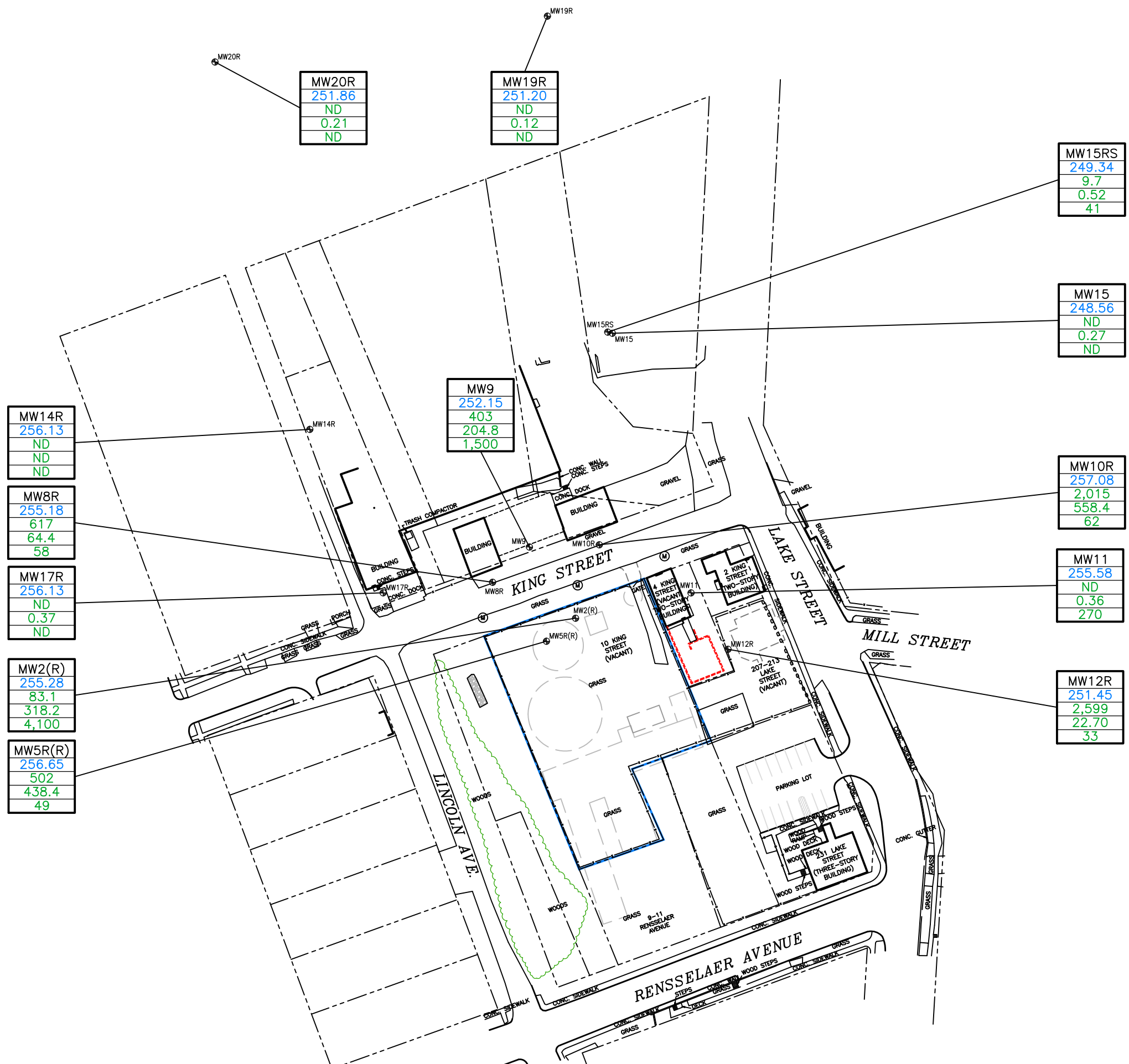


**NOTE:**  
 MW10R, MW12R AND MW15 WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map October 1, 2020	
National Grid 10 King Street Ogdensburg, New York	
Drawn W.G.S. Designed	Date 11/19/20 Figure 6
Approved	 Scale In Feet   Groundwater & Environmental Services, Inc.

**LEGEND**

- PROPERTY BOUNDARY
  - x — FENCE
  - ⊙ UTILITY MANHOLE
  - ⊕ MONITORING WELL
- |        |                              |
|--------|------------------------------|
| MW2(R) | WELL IDENTIFICATION          |
| 255.28 | GROUNDWATER ELEVATION (feet) |
| 83.1   | BTEX CONCENTRATION (ug/L)    |
| 318.2  | PAHs CONCENTRATION (ug/L)    |
| 4,100  | CYANIDE CONCENTRATION (ug/L) |
- ug/L MICROGRAMS PER LITER
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- ND NOT DETECTED



MW14R
256.13
ND
ND
ND

MW8R
255.18
617
64.4
58

MW17R
256.13
ND
0.37
ND

MW2(R)
255.28
83.1
318.2
4,100

MW5R(R)
256.65
502
438.4
49

MW20R
251.86
ND
0.21
ND

MW19R
251.20
ND
0.12
ND

MW9
252.15
403
204.8
1,500

MW15RS
249.34
9.7
0.52
41

MW15
248.56
ND
0.27
ND

MW10R
257.08
2,015
558.4
62

MW11
255.58
ND
0.36
270

MW12R
251.45
2,599
22.70
33

Groundwater Monitoring Map  
October 1, 2020

National Grid  
10 King Street  
Ogdensburg, New York

Drawn  
W.G.S.  
Designed  
Approved

Date  
11/19/20  
Figure  
7



Scale In Feet  
0 100





## Tables

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

Well ID	Well Type & Diameter	Top of Inner Casing Elevation	Depth To Well Bottom	Well Bottom Elevation	Screen Elevation	Depth To Water (06/23/20)	Groundwater Elevation (06/23/20)	Depth To Water (07/14/20)	Groundwater Elevation (07/14/20)	Depth To Water (10/01/20)	Groundwater Elevation (10/01/20)
MW-2(R)	Flushmount; PVC; 2-inch	259.20	6.35	252.85	4.00 - 7.00	4.36	254.84	4.82	254.38	3.92	255.28
MW-5R(R)	Flushmount; PVC; 2-inch	259.40	24.30	235.10	13.00 - 23.00	3.23	256.17	5.12	254.28	2.75	256.65
MW-8R	Flushmount; PVC; 2-inch	257.38	20.92	236.46	11.00 - 21.00	3.16	254.22	3.52	253.86	2.20	255.18
MW-9	Flushmount; PVC; 2-inch	257.00	6.35	250.65	3.00 - 7.00	4.98	252.02	4.88	252.12	4.85	252.15
MW-10R	Flushmount; PVC; 2-inch	257.58	22.50	235.08	11.75 - 21.75	1.36	256.22	1.16	256.42	0.50	257.08
MW-11	Flushmount; PVC; 2-inch	259.07	6.51	252.56	3.10 - 7.10	4.00	255.07	3.62	255.45	3.49	255.58
MW-12R	Flushmount; PVC; 2-inch	260.79	21.40	239.39	10.00 - 20.00	9.58	251.21	10.32	250.47	9.34	251.45
MW-14R	Flushmount; PVC; 2-inch	256.13	50.80	205.33	39.00 - 49.00	2.02	254.11	2.47	253.66	0.00	256.13
MW-15	Flushmount; PVC; 2-inch	256.62	9.04	247.58	4.50 - 9.50	8.04	248.58	8.22	248.40	8.06	248.56
MW-15RS	Flushmount; PVC; 2-inch	257.74	23.65	234.09	14.00 - 24.00	7.01	250.73	7.33	250.41	8.40	249.34
MW-17R	Flushmount; PVC; 2-inch	263.29	26.90	236.39	14.86 - 24.86	7.23	256.06	7.48	255.81	7.16	256.13
MW-19R	Flushmount; PVC; 2-inch	255.52	38.05	217.47	28.52 - 38.52	6.51	249.01	6.34	249.18	4.32	251.20
MW-20R	Flushmount; PVC; 2-inch	251.86	28.40	223.46	18.20 - 28.20	1.19	250.67	1.38	250.48	0.00	251.86



**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
<b>BTEX</b>						
Benzene	1	µg/L	<b>61</b>	<b>120</b>	<b>55.4</b>	<b>44.3</b>
Ethylbenzene	5	µg/L	ND	3	1.5	1.6
Toluene	5	µg/L	<b>29</b>	<b>44</b>	<b>22.4</b>	<b>19.4</b>
Total Xylenes	5	µg/L	<b>23</b>	<b>36</b>	<b>20.7</b>	<b>17.8</b>
<b>SVOCs</b>						
Acenaphthene	20	µg/L	1.8 J	4 J	3.5	3.0
Acenaphthylene	--	µg/L	7.7	18	16.2	12.6
Anthracene	50	µg/L	1.7 J	3 J	2.6	1.8
Benzo(a)anthracene	0.002	µg/L	<b>3.3</b>	ND	<b>0.13</b>	<b>0.37</b>
Benzo(a)pyrene	ND	µg/L	<b>2.8</b>	ND	ND	0.38
Benzo(b)fluoranthene	0.002	µg/L	<b>3.5</b>	ND	ND	<b>0.50</b>
Benzo(g,h,i)perylene	--	µg/L	1.6 J	ND	ND	0.23
Benzo(k)fluoranthene	0.002	µg/L	<b>1.4 J</b>	ND	ND	<b>0.17</b>
Chrysene	0.002	µg/L	<b>2.6</b>	ND	ND	<b>0.29</b>
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	6.9	ND	1.2	1.3
Fluorene	50	µg/L	2.3	7	6.2	5.2
Indeno(1,2,3-cd)pyrene	0.002	µg/L	<b>1.4 J</b>	ND	ND	<b>0.23</b>
2-Methylnaphthalene	--	µg/L	5.8	20	17.9	17.1
Naphthalene	10	µg/L	<b>120</b>	<b>270</b>	<b>210</b>	<b>270</b>
Phenanthrene	50	µg/L	4.1	6	5.0	4.1
Pyrene	50	µg/L	5.4	ND	0.74	0.92
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	<b>900</b>	<b>530</b>	<b>240</b>	<b>4100</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
<b>BTEX</b>						
Benzene	1	µg/L	<b>130</b>	<b>440</b>	<b>392</b>	<b>354</b>
Ethylbenzene	5	µg/L	<b>7.0</b>	<b>26</b>	<b>27.3</b>	<b>24.3</b>
Toluene	5	µg/L	3.0	<b>70</b>	<b>82.6</b>	<b>65.0</b>
Total Xylenes	5	µg/L	<b>6.4</b>	<b>53</b>	<b>78.9</b>	<b>58.7</b>
<b>SVOCs</b>						
Acenaphthene	20	µg/L	9.8	<b>71</b>	<b>44.9</b>	<b>38.8</b>
Acenaphthylene	--	µg/L	6.6	40	31.9	24.6
Anthracene	50	µg/L	0.50 J	8	4.9	3.1
Benzo(a)anthracene	0.002	µg/L	ND	ND	<b>0.11</b>	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	6	4.2	2.4
Fluorene	50	µg/L	4.7	48	28.4	23.8
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	6	10.3	7.9
Naphthalene	10	µg/L	4.1	<b>210</b>	<b>248</b>	<b>315</b>
Phenanthrene	50	µg/L	2.6	41	25.2	20.7
Pyrene	50	µg/L	ND	5	3.5	2.1
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	10	55	55	49

**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
<b>BTEX</b>						
Benzene	1	µg/L	<b>550</b>	<b>800</b>	<b>1,300</b>	<b>576</b>
Ethylbenzene	5	µg/L	<b>13</b>	<b>14</b>	<b>66.2</b>	<b>13.6</b>
Toluene	5	µg/L	<b>10</b>	<b>20</b>	<b>75.2</b>	<b>9.2</b>
Total Xylenes	5	µg/L	<b>19</b>	<b>27</b>	<b>132</b>	<b>18.0</b>
<b>SVOCs</b>						
Acenaphthene	20	µg/L	5.6	10	16.2	7.6
Acenaphthylene	--	µg/L	6.7	10	23.4	5.4
Anthracene	50	µg/L	0.94 J	0.9	2.9	0.68
Benzo(a)anthracene	0.002	µg/L	ND	ND	<b>0.48</b>	<b>0.48</b>
Benzo(a)pyrene	ND	µg/L	ND	ND	0.28	0.36
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	<b>0.31</b>	<b>0.38</b>
Benzo(g,h,i)perylene	--	µg/L	ND	ND	0.10	0.13
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	<b>0.10</b>	<b>0.18</b>
Chrysene	0.002	µg/L	<b>0.39 J</b>	ND	<b>0.28</b>	<b>0.32</b>
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	1.5 J	0.7	2.5	1.2
Fluorene	50	µg/L	4.40	7	15.6	4.5
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	<b>0.10</b>	<b>0.14</b>
2-Methylnaphthalene	--	µg/L	3.7	3	15.0	2.5
Naphthalene	10	µg/L	<b>33</b>	<b>51</b>	<b>333</b>	<b>37.9</b>
Phenanthrene	50	µg/L	2.7	2	9.2	1.7
Pyrene	50	µg/L	1.1 J	0.5	1.8	0.97
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	59	<b>320</b>	54	58

**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
<b>BTEX</b>						
Benzene	1	µg/L	<b>280</b>	<b>340</b>	<b>283</b>	<b>228</b>
Ethylbenzene	5	µg/L	<b>120</b>	<b>140</b>	<b>112</b>	<b>107</b>
Toluene	5	µg/L	<b>170</b>	<b>85</b>	<b>50.8</b>	<b>16.3</b>
Total Xylenes	5	µg/L	<b>250</b>	<b>180</b>	<b>91.7</b>	<b>52.1</b>
<b>SVOCs</b>						
Acenaphthene	20	µg/L	<b>76</b>	<b>48</b>	<b>30.2</b>	<b>55.5</b>
Acenaphthylene	--	µg/L	29	17	8.6	11.0
Anthracene	50	µg/L	11	8	2.6	11.4
Benzo(a)anthracene	0.002	µg/L	ND	<b>2</b>	<b>0.21</b>	<b>5.80</b>
Benzo(a)pyrene	ND	µg/L	ND	1	ND	4.4
Benzo(b)fluoranthene	0.002	µg/L	ND	1	ND	4.8
Benzo(g,h,i)perylene	--	µg/L	ND	0.4 J	ND	1.5
Benzo(k)fluoranthene	0.002	µg/L	ND	<b>0.5 J</b>	ND	1.8
Chrysene	0.002	µg/L	ND	1	<b>0.13</b>	<b>4.30</b>
Dibenz(a,h)anthracene	--	µg/L	ND	0.2 J	ND	0.46
Fluoranthene	50	µg/L	6.0	8	2.2	19.2
Fluorene	50	µg/L	<b>56</b>	38	19.0	36.1
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	1	ND	1.5
2-Methylnaphthalene	--	µg/L	14	1	ND	ND
Naphthalene	10	µg/L	<b>450</b>	<b>72</b>	<b>18.1</b>	<b>9.1</b>
Phenanthrene	50	µg/L	<b>51</b>	36	9.7	25.2
Pyrene	50	µg/L	3.5	5	1.2	12.7
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	<b>410</b>	<b>1,300</b>	<b>1,000</b>	<b>1,500</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-10R

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

**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
<b>BTEX</b>						
Benzene	1	µg/L	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND
<b>SVOCs</b>						
Acenaphthene	20	µg/L	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	0.11	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	0.14	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	0.13	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.19	ND
Naphthalene	10	µg/L	ND	ND	0.87	0.36
Phenanthrene	50	µg/L	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	<b>250</b>	<b>310</b>	160	<b>270</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-12R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/18/17	07/14/20	10/01/20
<b>BTEX</b>						
Benzene	1	µg/L	<b>2,600</b>	<b>2,900</b>	<b>1,420</b>	<b>2,440</b>
Ethylbenzene	5	µg/L	<b>130</b>	<b>110</b>	<b>67.6</b>	<b>86.7</b>
Toluene	5	µg/L	<b>7.4</b>	<b>15</b>	<b>5.8</b>	<b>13.8</b>
Total Xylenes	5	µg/L	<b>49</b>	<b>83</b>	<b>27.8</b>	<b>58.1</b>
<b>SVOCs</b>						
Acenaphthene	20	µg/L	3.4	4	<b>104</b>	1.2
Acenaphthylene	--	µg/L	4.8	7	1.9	1.5
Anthracene	50	µg/L	ND	ND	ND	0.098
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND
Fluorene	50	µg/L	ND	0.3 J	0.24	0.2
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	ND	ND
Naphthalene	10	µg/L	<b>31</b>	<b>92</b>	6.1	<b>19.7</b>
Phenanthrene	50	µg/L	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	190	37	62	33

**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
<b>BTEX</b>						
Benzene	1	µg/L	<b>3.0</b>	<b>48</b>	1.0	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND
<b>SVOCs</b>						
Acenaphthene	20	µg/L	ND	ND	0.12	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.14	ND
Naphthalene	10	µg/L	ND	ND	0.96	ND
Phenanthrene	50	µg/L	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	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
<b>BTEX</b>						
Benzene	1	µg/L	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND
<b>SVOCs</b>						
Acenaphthene	20	µg/L	ND	ND	0.15	ND
Acenaphthylene	--	µg/L	ND	ND	0.18	ND
Anthracene	50	µg/L	ND	ND	0.12	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	<b>0.28</b>	ND
Benzo(a)pyrene	ND	µg/L	ND	0.2 J	0.27	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	<b>0.2 J</b>	<b>0.29</b>	ND
Benzo(g,h,i)perylene	--	µg/L	ND	0.2 J	0.13	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	<b>0.11</b>	ND
Chrysene	0.002	µg/L	ND	ND	<b>0.19</b>	ND
Dibenz(a,h)anthracene	--	µg/L	ND	0.2 J	ND	ND
Fluoranthene	50	µg/L	ND	ND	0.45	ND
Fluorene	50	µg/L	ND	0.3 J	0.13	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	<b>0.12</b>	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.2	ND
Naphthalene	10	µg/L	ND	ND	1.0	0.27
Phenanthrene	50	µg/L	ND	0.1 J	0.28	ND
Pyrene	50	µg/L	0.35 J	0.3 J	0.4	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	ND	ND	15	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
<b>BTEX</b>						
Benzene	1	µg/L	<b>750</b>	<b>170</b>	<b>4.8</b>	<b>9.7</b>
Ethylbenzene	5	µg/L	ND	ND	ND	ND
Toluene	5	µg/L	0.54 J	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND
<b>SVOCs</b>						
Acenaphthene	20	µg/L	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.14	ND
Naphthalene	10	µg/L	ND	ND	0.85	0.52
Phenanthrene	50	µg/L	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	160	64	67	41

**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
<b>BTEX</b>						
Benzene	1	µg/L	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND
<b>SVOCs</b>						
Acenaphthene	20	µg/L	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	ND	ND
Naphthalene	10	µg/L	ND	ND	0.13	0.37
Phenanthrene	50	µg/L	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	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
<b>BTEX</b>						
Benzene	1	µg/L	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND
<b>SVOCs</b>						
Acenaphthene	20	µg/L	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	ND	ND
Naphthalene	10	µg/L	ND	ND	0.30	0.12
Phenanthrene	50	µg/L	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	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
<b>BTEX</b>						
Benzene	1	µg/L	ND	ND	ND	ND
Ethylbenzene	5	µg/L	ND	ND	ND	ND
Toluene	5	µg/L	ND	ND	ND	ND
Total Xylenes	5	µg/L	ND	ND	ND	ND
<b>SVOCs</b>						
Acenaphthene	20	µg/L	ND	ND	ND	ND
Acenaphthylene	--	µg/L	ND	ND	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	µg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	µg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene	--	µg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	µg/L	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene	--	µg/L	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	µg/L	ND	ND	ND	ND
2-Methylnaphthalene	--	µg/L	ND	ND	0.14	ND
Naphthalene	10	µg/L	ND	ND	0.89	0.21
Phenanthrene	50	µg/L	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND
<b>Inorganics</b>						
Cyanide, Total	200	µg/L	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: 10/1/2020  
Technician: KL

NYSDEC Site No. V00479

Time: 8:30  
Weather: Cloudy 53

<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>		
<b>Well ID.</b>	<b>Location Secure</b>	
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: 7/14/2020  
Technician: AJ

NYSDEC Site No. V00479

Time: 9:00  
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>		
<b>Well ID.</b>	<b>Location Secure</b>	
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: 6/23/2020  
Technician: KL/BH

Time: 8:30  
Weather: Sunny 70

<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:
Excessive cracking or missing pavement?	YES	NO	COMMENTS:
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:

<b>Site Wide</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 asphalt pavement	GOOD	FAIR	POOR	COMMENTS: Lake St
Condition of the sidewalks?	GOOD	FAIR	POOR	COMMENTS: Lake St
Condition of the site trees?	GOOD	FAIR	POOR	COMMENTS: Lake St
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:	
Are there any needed changes?	YES	NO	COMMENTS:	
Are the site records complete and up to date?	YES	NO	COMMENTS:	

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

<b>Site Monitoring Wells</b>		
<b>Well ID.</b>	<b>Location Secure</b>	
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:**

Hinge missing on St. Lawrence Gate.  
Fenceline needs to be sprayed?  
Rear of fence overgrown.  
Installed GES MC-2 lock on gate.  
Installed GES MC-2 locks on wells.  
New well manways needed for MW-8R, MW-9R and MW-10R

Do we need NG Signs??



## Appendix B – Well Sampling Field Data

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Sampling Personnel: AS  
 Job Number: 0603123-136690-221  
 Well Id. MW-2(R)

Date: 7/14/20  
 Weather: \_\_\_\_\_  
 Time In: 1020 Time Out: 1115

Well Information			TOC	Other
Depth to Water:	(feet)	<u>7.82</u>		
Depth to Bottom:	(feet)	<u>6.35</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>1.53</u>		
Volume of Water in Well:	(gal)	<u>0.9</u>		
Three Well Volumes:	(gal)	<u>2.7</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"/>
Well Diameter:	1"	<input type="checkbox"/>	2"	<input checked="" type="checkbox"/>
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:	<u>200</u> (ml/min)					
Duration of Pumping:	<u>30</u> (min)					
Total Volume Removed:	<u>1.0</u> (gal)	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"/>					

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>1025</u>	<u>5.62</u>	<u>21.41</u>	<u>9.01</u>	<u>-239</u>	<u>0.621</u>	<u>36.3</u>	<u>1.72</u>	<u>0.389</u>
<u>1030</u>	<u>5.85</u>	<u>22.97</u>	<u>7.52</u>	<u>-204</u>	<u>0.579</u>	<u>69.4</u>	<u>1.04</u>	<u>0.272</u>
<u>1035</u>	<u>6.20</u>	<u>22.81</u>	<u>7.51</u>	<u>-207</u>	<u>0.508</u>	<u>33.3</u>	<u>0.85</u>	<u>0.363</u>
<u>1040</u>	<u>6.25</u>	<u>22.70</u>	<u>9.32</u>	<u>-285</u>	<u>0.591</u>	<u>47.8</u>	<u>3.66</u>	<u>0.377</u>
<u>1045</u>	<u>6.28</u>	<u>22.76</u>	<u>10.51</u>	<u>-233</u>	<u>0.677</u>	<u>37.2</u>	<u>6.48</u>	<u>0.429</u>
<u>1050</u>	<u>6.29</u>	<u>23.34</u>	<u>10.55</u>	<u>-214</u>	<u>0.810</u>	<u>22.3</u>	<u>6.42</u>	<u>0.515</u>
<u>1055</u>	<u>6.28</u>	<u>24.25</u>	<u>10.75</u>	<u>-218</u>	<u>0.910</u>	<u>14.2</u>	<u>6.10</u>	<u>0.581</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter 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: <u>MW-2(R)-0720</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>1100</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: AS  
 Job Number: 0603123-136690-221  
 Well Id. **MW-5R(R)**

Date: 7/14/26  
 Weather: 72°F, sunny  
 Time In: 0930 Time Out: 1015

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>5.12</u>	
Depth to Bottom: (feet)	<u>24.30</u>	
Depth to Product: (feet)	<u>NP</u>	
Length of Water Column: (feet)	<u>19.18</u>	
Volume of Water in Well: (gal)	<u>3.0</u>	
Three Well Volumes: (gal)	<u>9.0</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 <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>
Average Pumping Rate: <u>200</u> (ml/min)	Grundfos Pump <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/>
Duration of Pumping: <u>30</u> (min)	Grundfos Pump <input type="checkbox"/>	
Total Volume Removed: <u>3</u> (gal)	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				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0935</u>	<u>6.15</u>	<u>20.50</u>	<u>8.35</u>	<u>-83</u>	<u>0.592</u>	<u>40.4</u>	<u>3.69</u>	<u>0.579</u>
<u>0940</u>	<u>6.79</u>	<u>19.73</u>	<u>8.86</u>	<u>-140</u>	<u>0.590</u>	<u>31.1</u>	<u>2.83</u>	<u>0.378</u>
<u>0945</u>	<u>7.05</u>	<u>18.65</u>	<u>9.60</u>	<u>-265</u>	<u>0.598</u>	<u>17.1</u>	<u>1.62</u>	<u>0.382</u>
<u>0950</u>	<u>7.32</u>	<u>18.57</u>	<u>9.84</u>	<u>-263</u>	<u>0.619</u>	<u>10.9</u>	<u>1.38</u>	<u>0.396</u>
<u>0955</u>	<u>7.46</u>	<u>18.77</u>	<u>9.92</u>	<u>-286</u>	<u>0.636</u>	<u>7.2</u>	<u>1.19</u>	<u>0.407</u>
<u>1000</u>	<u>7.60</u>	<u>19.12</u>	<u>9.97</u>	<u>-290</u>	<u>0.646</u>	<u>5.4</u>	<u>1.05</u>	<u>0.413</u>
<u>1005</u>	<u>7.68</u>	<u>19.58</u>	<u>10.00</u>	<u>-291</u>	<u>0.647</u>	<u>4.9</u>	<u>0.96</u>	<u>0.414</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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)-0720 Duplicate? Yes  No   
 Sample Time: 1010 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

Laboratory: Pace Analytical  
 Greensburg, PA

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

Sampling Personnel: BA  
 Job Number: 0603123-136690-221  
 Well Id. MW-8R

Date: 07/14/20  
 Weather: 73°F, sunny  
 Time In: 0920 Time Out: 1010

Well Information			TOC	Other
Depth to Water:	(feet)	<u>3.52</u>		
Depth to Bottom:	(feet)	<u>20.92</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>17.40</u>		
Volume of Water in Well:	(gal)	<u>2.78</u>		
Three Well Volumes:	(gal)	<u>8.34</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"/>
Well Diameter:	1"	<input type="checkbox"/>	2"	<input checked="" type="checkbox"/>
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:	<u>200</u> (ml/min)						
Duration of Pumping:	<u>30</u> (min)						
Total Volume Removed:	<u>2</u> (gal)	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"/>			

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)
0930	<u>3.86</u>	<u>21.83</u>	<u>7.12</u>	<u>-63</u>	<u>0.561</u>	<u>2.0</u>	<u>5.90</u>	<u>0.361</u>
0935	<u>4.32</u>	<u>18.63</u>	<u>7.02</u>	<u>-305</u>	<u>0.578</u>	<u>0.9</u>	<u>3.67</u>	<u>0.368</u>
0940	<u>4.68</u>	<u>18.03</u>	<u>7.07</u>	<u>-333</u>	<u>0.578</u>	<u>2.8</u>	<u>2.39</u>	<u>0.369</u>
0945	<u>4.91</u>	<u>19.74</u>	<u>7.04</u>	<u>-341</u>	<u>0.564</u>	<u>3.8</u>	<u>1.89</u>	<u>0.360</u>
0950	<u>5.28</u>	<u>17.29</u>	<u>7.12</u>	<u>-349</u>	<u>0.592</u>	<u>8.4</u>	<u>1.72</u>	<u>0.378</u>
0955	<u>5.70</u>	<u>17.14</u>	<u>7.11</u>	<u>-349</u>	<u>0.590</u>	<u>0.0</u>	<u>1.57</u>	<u>0.378</u>
1000	<u>6.03</u>	<u>16.84</u>	<u>7.06</u>	<u>-351</u>	<u>0.591</u>	<u>0.0</u>	<u>1.45</u>	<u>0.379</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	6 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	9 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide	3 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>MW-8R-MS-0720</b>	<b>MW-8R-MSD-0720</b>		
Sample ID: <u>MW-8R-0720</u>	Duplicate?	Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/>
Sample Time: <u>1000</u>	MS/MSD?	Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/>
Shipped:		Pace Courier Pickup	<input checked="" type="checkbox"/>
		Ship to Pace	<input type="checkbox"/>
Laboratory:		Pace Analytical Greensburg, PA	
Comments/Notes:			

Sampling Personnel: AS  
 Job Number: 0603123-136690-221  
 Well Id. MW-9

Date: 7/14/20  
 Weather: 79°F, partly cloudy  
 Time In: 1350 Time Out: 1435

Well Information			TOC	Other
Depth to Water:	(feet)	<u>4.88</u>		
Depth to Bottom:	(feet)	<u>6.35</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>1.47</u>		
Volume of Water in Well:	(gal)	<u>0.23</u>		
Three Well Volumes:	(gal)	<u>0.7</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"/>	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:	<u>200</u> (ml/min)					
Duration of Pumping:	<u>30</u> (min)					
Total Volume Removed:	(gal) _____					
			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"/>			

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>1355</u>	<u>5.30</u>	<u>21.08</u>	<u>9.59</u>	<u>-301</u>	<u>0.740</u>	<u>119</u>	<u>1.21</u>	<u>0.459</u>
<u>1400</u>	<u>5.39</u>	<u>22.96</u>	<u>8.22</u>	<u>-229</u>	<u>1.05</u>	<u>375</u>	<u>1.46</u>	<u>0.670</u>
<u>1405</u>	<u>5.42</u>	<u>22.62</u>	<u>7.47</u>	<u>-251</u>	<u>1.05</u>	<u>174</u>	<u>0.50</u>	<u>0.471</u>
<u>1410</u>	<u>5.30</u>	<u>23.08</u>	<u>7.18</u>	<u>-278</u>	<u>1.08</u>	<u>81.4</u>	<u>0.28</u>	<u>0.690</u>
<u>1415</u>	<u>5.55</u>	<u>23.70</u>	<u>7.09</u>	<u>-298</u>	<u>1.08</u>	<u>48.6</u>	<u>0.24</u>	<u>0.692</u>
<u>1420</u>	<u>5.55</u>	<u>24.00</u>	<u>7.08</u>	<u>-312</u>	<u>1.06</u>	<u>41.1</u>	<u>0.20</u>	<u>0.680</u>
<u>1425</u>	<u>5.60</u>	<u>24.19</u>	<u>7.09</u>	<u>-322</u>	<u>1.06</u>	<u>34.1</u>	<u>0.18</u>	<u>0.677</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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-9-0720 Duplicate? Yes  No   
 Sample Time: 1430 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

Laboratory: Pace Analytical Greensburg, PA

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

Sampling Personnel: AS  
 Job Number: 0603123-136690-221  
 Well Id. MW-10R

Date: 7/14/20  
 Weather: 79°F, partly cloudy  
 Time In: 1300 Time Out: 1345

Well Information			TOC	Other
Depth to Water:	(feet)	<u>1.14</u>		
Depth to Bottom:	(feet)	<u>22.50</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>20.79</u>		
Volume of Water in Well:	(gal)	<u>3.3</u>		
Three Well Volumes:	(gal)	<u>9.9</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			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"/>	gal/ft. of water	1" ID	2" ID	4" ID	6" ID
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	0.04	0.16	0.66	1.47	
Average Pumping Rate:	<u>200</u> (ml/min)							
Duration of Pumping:	<u>30</u> (min)							
Total Volume Removed:	<u>3.0</u> (gal)	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 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>1305</u>	<u>2.31</u>	<u>24.76</u>	<u>8.47</u>	<u>-373</u>	<u>0.408</u>	<u>160</u>	<u>0.39</u>	<u>0.264</u>
<u>1310</u>	<u>2.64</u>	<u>22.63</u>	<u>10.28</u>	<u>-390</u>	<u>0.454</u>	<u>546</u>	<u>0.49</u>	<u>0.293</u>
<u>1315</u>	<u>2.98</u>	<u>21.88</u>	<u>10.77</u>	<u>-381</u>	<u>0.514</u>	<u>263</u>	<u>0.50</u>	<u>0.328</u>
<u>1320</u>	<u>3.37</u>	<u>20.48</u>	<u>10.71</u>	<u>-373</u>	<u>0.549</u>	<u>65.2</u>	<u>0.48</u>	<u>0.350</u>
<u>1325</u>	<u>3.55</u>	<u>20.27</u>	<u>10.51</u>	<u>-366</u>	<u>0.574</u>	<u>29.4</u>	<u>0.46</u>	<u>0.367</u>
<u>1330</u>	<u>3.75</u>	<u>20.01</u>	<u>10.39</u>	<u>-362</u>	<u>0.579</u>	<u>20.7</u>	<u>0.44</u>	<u>0.371</u>
<u>1335</u>	<u>3.90</u>	<u>19.65</u>	<u>10.32</u>	<u>-361</u>	<u>0.570</u>	<u>10.9</u>	<u>0.43</u>	<u>0.365</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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   
**FD-0720**

Sample ID: MW-10R-0720 Duplicate? Yes  No   
 Sample Time: 1340 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

Laboratory: Pace Analytical  
 Greensburg, PA

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



Sampling Personnel: AS  
 Job Number: 0603123-136690-221  
 Well Id. **MW-11**

Date: 7/14/20  
 Weather: 75°F, sunny  
 Time In: 1120 Time Out: 1205

Well Information			TOC	Other
Depth to Water:	(feet)		<u>3.62</u>	
Depth to Bottom:	(feet)		6.51	
Depth to Product:	(feet)		<u>NP</u>	
Length of Water Column:	(feet)		<u>2.89</u>	
Volume of Water in Well:	(gal)		<u>0.46</u>	
Three Well Volumes:	(gal)		<u>1.3</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"/>
Well Diameter:	1"	<input type="checkbox"/>	2"	<input checked="" type="checkbox"/>
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:	<u>200</u> (ml/min)					
Duration of Pumping:	<u>30</u> (min)					
Total Volume Removed:	<u>10</u> (gal)	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"/>		

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)
1125	3.91	23.53	9.97	-240	1.05	64.8	3.95	0.664
1130	3.75	22.59	8.35	-217	1.17	977	1.10	0.750
1135	3.72	21.92	7.54	-172	1.23	493	0.62	0.784
1140	3.73	20.39	6.74	-136	1.26	154	0.65	0.806
1145	3.75	20.09	6.66	-134	1.26	140	0.64	0.807
1150	3.76	19.54	6.55	-131	1.27	113	0.62	0.810
1155	3.77	19.23	6.50	-131	1.28	90.3	0.58	0.819

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter 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: <u>MW-11-0720</u>	Duplicate?	Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/>
Sample Time: <u>1200</u>	MS/MSD?	Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/>
Comments/Notes:	Shipped:	Pace Courier Pickup	<input checked="" type="checkbox"/>
		Ship to Pace	<input type="checkbox"/>
	Laboratory:	Pace Analytical	
		Greensburg, PA	

Sampling Personnel: AS  
 Job Number: 0603123-136690-221  
 Well Id. **MW-12R**

Date: 7/14/20  
 Weather: 77°F, partly cloudy  
 Time In: 1210 Time Out: 1255

Well Information			TOC	Other
Depth to Water:	(feet)	<u>10-32</u>		
Depth to Bottom:	(feet)	<u>21.40</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>11.08</u>		
Volume of Water in Well:	(gal)	<u>1.77</u>		
Three Well Volumes:	(gal)	<u>5.3</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. of water	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"/>	0.04	0.16	0.66	1.47	
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet				
Average Pumping Rate:	<u>200</u> (ml/min)							
Duration of Pumping:	<u>30</u> (min)							
Total Volume Removed:	<u>2.0</u> (gal)		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)
<u>1215</u>	<u>10.86</u>	<u>22.30</u>	<u>6.78</u>	<u>-173</u>	<u>0.979</u>	<u>111</u>	<u>0.67</u>	<u>0.647</u>
<u>1220</u>	<u>11.19</u>	<u>26.34</u>	<u>7.30</u>	<u>-257</u>	<u>0.533</u>	<u>597</u>	<u>0.60</u>	<u>0.351</u>
<u>1225</u>	<u>11.79</u>	<u>26.31</u>	<u>7.50</u>	<u>-311</u>	<u>0.434</u>	<u>560</u>	<u>0.33</u>	<u>0.284</u>
<u>1230</u>	<u>12.22</u>	<u>25.96</u>	<u>7.59</u>	<u>-332</u>	<u>0.405</u>	<u>262</u>	<u>0.29</u>	<u>0.244</u>
<u>1235</u>	<u>12.55</u>	<u>25.81</u>	<u>7.62</u>	<u>-341</u>	<u>0.402</u>	<u>149</u>	<u>0.30</u>	<u>0.261</u>
<u>1240</u>	<u>12.89</u>	<u>25.75</u>	<u>7.65</u>	<u>-351</u>	<u>0.403</u>	<u>83.0</u>	<u>0.31</u>	<u>0.262</u>
<u>1245</u>	<u>13.20</u>	<u>25.97</u>	<u>7.66</u>	<u>-357</u>	<u>0.401</u>	<u>58.5</u>	<u>0.32</u>	<u>0.261</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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-12R-0720 Duplicate? Yes  No   
 Sample Time: 1250 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: BA  
 Job Number: 0603123-136690-221  
 Well Id. **MW-14R**

Date: 07/14/20  
 Weather: 75°F, sunny  
 Time In: 1055 Time Out: 1135

Well Information			TOC	Other
Depth to Water:	(feet)	<u>2.47</u>		
Depth to Bottom:	(feet)	<u>50.80</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>48.33</u>		
Volume of Water in Well:	(gal)	<u>7.8</u>		
Three Well Volumes:	(gal)	<u>23.4</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: 200 (ml/min)  
 Duration of Pumping: 30 (min)  
 Total Volume Removed: 2 (gal)

Bailer  Peristaltic   
 Teflon  Stainless St.   
 Bailer  Peristaltic

Grundfos Pump  Polyethylene   
 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				

Did well go dry? Yes  No   
 Horiba U-52 Water Quality Meter Used? Yes  No

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1100	<del>2.26</del> <u>2.65</u>	<u>22.82</u>	<u>7.33</u>	<u>-282</u>	<u>0.480</u>	<u>0.3</u>	<u>1.19</u>	<u>0.309</u>
1105	<u>2.78</u>	<u>22.23</u>	<u>7.30</u>	<u>-304</u>	<u>0.471</u>	<u>0.2</u>	<u>0.99</u>	<u>0.306</u>
1110	<u>2.86</u>	<u>21.85</u>	<u>7.28</u>	<u>-311</u>	<u>0.469</u>	<u>0.0</u>	<u>0.93</u>	<u>0.305</u>
1115	<u>2.92</u>	<u>21.48</u>	<u>7.25</u>	<u>-316</u>	<u>0.469</u>	<u>0.0</u>	<u>0.89</u>	<u>0.304</u>
1120	<u>2.94</u>	<u>21.36</u>	<u>7.24</u>	<u>-317</u>	<u>0.467</u>	<u>0.0</u>	<u>0.89</u>	<u>0.305</u>
1125	<u>2.95</u>	<u>20.01</u>	<u>7.21</u>	<u>-317</u>	<u>0.478</u>	<u>0.0</u>	<u>0.91</u>	<u>0.309</u>
1130	<u>2.97</u>	<u>20.88</u>	<u>7.28</u>	<u>-322</u>	<u>0.469</u>	<u>0.0</u>	<u>0.87</u>	<u>0.305</u>

**Sampling Information:**

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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-14R-0720 Duplicate? Yes  No   
 Sample Time: 1130 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: BA  
 Job Number: 0603123-136690-221  
 Well Id. **MW-15**

Date: 07/14/20  
 Weather: 80°F, sunny  
 Time In: 1310 Time Out: 1350

Well Information			TOC	Other
Depth to Water:	(feet)	<u>8.22</u>		
Depth to Bottom:	(feet)	<u>9.04</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>0.82</u>		
Volume of Water in Well:	(gal)	<u>0.13</u>		
Three Well Volumes:	(gal)	<u>0.39</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: Low water, sampled early

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"/>	gal/ft. of water	1" ID	2" ID	4" ID	6" ID
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	0.04	0.16	0.66	1.47	
Average Pumping Rate:	<u>120</u> (ml/min)							
Duration of Pumping:	<u>25</u> (min)							
Total Volume Removed:	<u>0.75</u> (gal)	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 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>1315</u>	<u>8.25</u>	<u>26.92</u>	<u>6.56</u>	<u>-92</u>	<u>0.685</u>	<u>0.0</u>	<u>2.19</u>	<u>0.443</u>
<u>1320</u>	<u>8.32</u>	<u>26.80</u>	<u>6.49</u>	<u>-102</u>	<u>0.721</u>	<u>1000</u>	<u>1.42</u>	<u>0.476</u>
<u>1325</u>	<u>8.39</u>	<u>26.46</u>	<u>6.40</u>	<u>-118</u>	<u>0.768</u>	<u>998</u>	<u>0.86</u>	<u>0.490</u>
<u>1330</u>	<u>8.45</u>	<u>26.55</u>	<u>6.36</u>	<u>-127</u>	<u>0.763</u>	<u>635</u>	<u>0.82</u>	<u>0.488</u>
<u>1335</u>	<u>8.50</u>	<u>24.91</u>	<u>6.34</u>	<u>-132</u>	<u>0.810</u>	<u>960</u>	<u>0.65</u>	<u>0.519</u>
<u>1340</u>	<u>8.54</u>	<u>24.69</u>	<u>6.35</u>	<u>-131</u>	<u>0.821</u>	<u>1000</u>	<u>1.03</u>	<u>0.525</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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-15-0720 Duplicate? Yes  No   
 Sample Time: 1340 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

Laboratory: Pace Analytical Greensburg, PA

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

Sampling Personnel: SN  
 Job Number: 0603123-136690-221  
 Well Id. **MW-15RS**

Date: 07/14/20  
 Weather: 78°F, overcast  
 Time In: 1350 Time Out: 1430

Well Information			TOC	Other
Depth to Water:	(feet)	<u>7.33</u>		
Depth to Bottom:	(feet)	<u>23.65</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>16.32</u>		
Volume of Water in Well:	(gal)	<u>0.65</u>		
Three Well Volumes:	(gal)	<u>1.95</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: Diameter too small for probe & tubing simultaneously.

**Purging Information**

Purging Method: \_\_\_\_\_  
 Tubing/Bailer Material: \_\_\_\_\_  
 Sampling Method: \_\_\_\_\_  
 Average Pumping Rate: 120 (ml/min)  
 Duration of Pumping: 30 (min)  
 Total Volume Removed: 1.0 (gal)

Bailer  Peristaltic   
 Teflon  Stainless St.   
 Bailer  Peristaltic

Grundfos Pump  Polyethylene   
 Grundfos Pump

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)
1355		23.42	6.74	-330	0.719	25.1	1.19	0.461
1400		23.10	6.69	-321	0.702	21.0	1.12	0.454
1405		22.96	6.67	-301	0.694	18.4	1.17	0.443
1410		22.72	6.66	-296	0.681	19.1	1.25	0.436
1415		22.19	6.60	-295	0.740	15.6	1.18	0.489
1420		21.64	6.63	-311	0.824	13.2	0.91	0.521
1425		21.16	6.70	-320	0.887	10.5	0.76	0.569

**Sampling Information:**

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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-0720 Duplicate? Yes  No   
 Sample Time: 1425 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

Laboratory: Pace Analytical  
 Greensburg, PA

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

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

Sampling Personnel: BAC

Date: 07/14/20

Job Number: 0603123-136690-221

Weather: 75°F sunny

Well Id. MW-17R

Time In: 1010 Time Out: 1050

Well Information			TOC	Other
Depth to Water:	(feet)		<u>7.48</u>	
Depth to Bottom:	(feet)		<u>26.90</u>	
Depth to Product:	(feet)		<u>NP</u>	
Length of Water Column:	(feet)		<u>19.42</u>	
Volume of Water in Well:	(gal)		<u>3.1</u>	
Three Well Volumes:	(gal)		<u>9.3</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"/>
Well Diameter:	1"	<input type="checkbox"/>	2"	<input checked="" type="checkbox"/>
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:	<u>200</u> (ml/min)					
Duration of Pumping:	<u>30</u> (min)					
Total Volume Removed:	<u>2</u> (gal)	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"/>					

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>1015</u>	<u>7.67</u>	<u>19.62</u>	<u>7.17</u>	<u>-298</u>	<u>0.819</u>	<u>18.3</u>	<u>1.89</u>	<u>0.525</u>
<u>1020</u>	<u>8.05</u>	<u>16.45</u>	<u>7.09</u>	<u>-291</u>	<u>0.862</u>	<u>8.7</u>	<u>1.60</u>	<u>0.552</u>
<u>1025</u>	<u>8.41</u>	<u>15.87</u>	<u>6.92</u>	<u>-276</u>	<u>0.870</u>	<u>2.6</u>	<u>1.37</u>	<u>0.556</u>
<u>1030</u>	<u>8.76</u>	<u>16.08</u>	<u>6.86</u>	<u>-273</u>	<u>0.866</u>	<u>0.6</u>	<u>1.30</u>	<u>0.554</u>
<u>1035</u>	<u>9.01</u>	<u>16.04</u>	<u>6.84</u>	<u>-273</u>	<u>0.865</u>	<u>0.0</u>	<u>1.26</u>	<u>0.553</u>
<u>1040</u>	<u>9.17</u>	<u>15.86</u>	<u>6.80</u>	<u>-271</u>	<u>0.866</u>	<u>0.0</u>	<u>1.21</u>	<u>0.555</u>
<u>1045</u>	<u>9.39</u>	<u>15.74</u>	<u>6.78</u>	<u>-270</u>	<u>0.865</u>	<u>0.0</u>	<u>1.18</u>	<u>0.552</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter 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: <u>MW-17R-0720</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>1045</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

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

Sampling Personnel: EJA  
 Job Number: 0603123-136690-221  
 Well Id. MW-19R

Date: 07/14/20  
 Weather: 80°F, Sunny  
 Time In: 1225 Time Out: 1305

Well Information		TOC	Other
Depth to Water:	(feet)	<u>6.34</u>	
Depth to Bottom:	(feet)	<u>38.05</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>32.31.71</u>	
Volume of Water in Well:	(gal)	<u>5.1</u>	
Three Well Volumes:	(gal)	<u>15.3</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. of water	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"/>		0.04	0.16	0.66	1.47
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Grundfos Pump <input type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet				
Average Pumping Rate:	<u>200</u> (ml/min)					
Duration of Pumping:	<u>30</u> (min)					
Total Volume Removed:	<u>2</u> (gal)	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)
1230	<u>6.46</u>	<u>22.96</u>	<u>7.33</u>	<u>-230</u>	<u>0.370</u>	<u>14.8</u>	<u>1.43</u>	<u>0.234</u>
1235	<u>7.32</u>	<u>23.26</u>	<u>7.32</u>	<u>-241</u>	<u>0.263</u>	<u>6.6</u>	<u>0.83</u>	<u>0.171</u>
1240	<u>8.01</u>	<u>22.25</u>	<u>7.28</u>	<u>-243</u>	<u>0.270</u>	<u>7.2</u>	<u>0.81</u>	<u>0.176</u>
1245	<u>8.77</u>	<u>21.88</u>	<u>7.27</u>	<u>-243</u>	<u>0.273</u>	<u>4.1</u>	<u>0.79</u>	<u>0.178</u>
1250	<u>9.52</u>	<u>21.74</u>	<u>7.26</u>	<u>-243</u>	<u>0.275</u>	<u>2.1</u>	<u>0.77</u>	<u>0.179</u>
1255	<u>10.29</u>	<u>21.04</u>	<u>7.25</u>	<u>-243</u>	<u>0.282</u>	<u>9.8</u>	<u>0.79</u>	<u>0.183</u>
1300	<u>10.98</u>	<u>21.68</u>	<u>7.23</u>	<u>-242</u>	<u>0.281</u>	<u>4.0</u>	<u>0.77</u>	<u>0.182</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter 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: <u>MW-19R-0720</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>1300</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: BN  
 Job Number: 0603123-136690-221  
 Well Id. MW-20R

Date: 07/14/20  
 Weather: 78°F, sunny  
 Time In: 1140 Time Out: 1220

Well Information		TOC	Other
Depth to Water:	(feet)	<u>1.38</u>	
Depth to Bottom:	(feet)	<u>28.40</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>27.02</u>	
Volume of Water in Well:	(gal)	<u>4.3</u>	
Three Well Volumes:	(gal)	<u>12.9</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		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)	1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min)					
Total Volume Removed:	(gal)					
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)
<u>1145</u>	<u>1.41</u>	<u>24.75</u>	<u>7.40</u>	<u>-252</u>	<u>0.494</u>	<u>7.2</u>	<u>1.72</u>	<u>0.321</u>
<u>1150</u>	<u>1.93</u>	<u>23.43</u>	<u>7.32</u>	<u>-247</u>	<u>0.484</u>	<u>3.7</u>	<u>1.02</u>	<u>0.318</u>
<u>1155</u>	<u>2.60</u>	<u>22.64</u>	<u>7.19</u>	<u>-254</u>	<u>0.496</u>	<u>6.0</u>	<u>0.84</u>	<u>0.322</u>
<del>1200</del>	<u>3.38</u>	<u>22.83</u>	<u>7.17</u>	<u>-255</u>	<u>0.498</u>	<u>7.2</u>	<u>0.82</u>	<u>0.323</u>
<u>1205</u>	<u>4.02</u>	<u>23.19</u>	<u>7.16</u>	<u>-255</u>	<u>0.497</u>	<u>5.1</u>	<u>0.83</u>	<u>0.323</u>
<u>1210</u>	<u>4.69</u>	<u>23.35</u>	<u>7.15</u>	<u>-255</u>	<u>0.495</u>	<u>4.0</u>	<u>0.83</u>	<u>0.322</u>
<u>1215</u>	<u>5.12</u>	<u>22.98</u>	<u>7.14</u>	<u>-254</u>	<u>0.496</u>	<u>3.3</u>	<u>0.83</u>	<u>0.321</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter 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-0720 Duplicate? Yes  No   
 Sample Time: 1215 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:	Section B Required Project Information:	Section C Invoice Information:
Company: GES - Syracuse	Report To: Devin Shay (GES) dshay@gesonline.com	Attention: Accounts Payable via email at ges-invoices@gesonline.com
Address: 5 Technology Place, Suite 4 East Syracuse, New York 13057	Report To: Tim Beaumont (GES) tbeaumont@gesonline.com	Company Name: Groundwater & Environmental Services, Inc.
Email To: dshay@gesonline.com	Purchase Order No.:	Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057
Phone: 800.220.3069   Fax: None x4051	Project Name: National Grid - Ogdensburg King Street Ogdensburg, NY	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: 0603123-136690-221-1106	Pace Project Manager: Rachel Christner
	Pace Profile #: <b>Semi-Annual GWS</b>	

REGULATORY AGENCY		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> THER

SITE LOCATION
<input type="checkbox"/> GA <input type="checkbox"/> L <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DH <input type="checkbox"/> IC <input type="checkbox"/> IL <input type="checkbox"/> THER

Filtered (Y/N)	Requested Analysis:										
		<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">           BTEX (8280C)            SVOCs (2443) (8270D)            Organics, Total (99129)         </div>									

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX	CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES
	<b>SAMPLE ID</b> One Character per box. (A-Z, 0-9 / -)		ORANGE WATER WT WASTE WATER P SPRINKLER IL OIL SLURRY AD OTHER TDS	ORANGE WATER WT WASTE WATER P SPRINKLER IL OIL SLURRY AD OTHER TDS				
	Samples IDs MUST BE UNIQUE							

ITEM #	SAMPLE ID	MATRIX CODE	G-GRAB	C-COMP	DATE	TIME	DATE	TIME	# OF CONTAINERS	PRESERVATIVES
1	MW-2(R)-0720	WT	G				7/14/20	1100	7	2
2	MW-5R(R)-0720	WT	G					1010	7	2
3	MW-8R-0720	WT	G					1000	7	2
4	MW-8R-MS-0720	WT	G					1000	7	2
5	MW-8R-MSD-0720	WT	G					1000	7	2
6	MW-9-0720	WT	G					1430	7	2
7	MW-10R-0720	WT	G					1340	7	2
8	MW-11-0720	WT	G					1200	7	2
9	MW-12R-0720	WT	G					1250	7	2
10	MW-14R-0720	WT	G					1130	7	2
11	MW-15-0720	WT	G					1340	7	2
12	MW-15RS-0720	WT	G					1425	7	2
13	MW-17R-0720	WT	G					1045	7	2
14	MW-19R-0720	WT	G					1300	7	2
15	MW-20R-0720	WT	G					1215	7	2
16	FD-0720	WT	G						7	2
17	Trip Blanks	WT	G						2	3

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<i>Devin Shay GES</i>	7/14/20	1800	GES Fridge	7/14/20	1800		Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N

Additional Comments:  
 SAMPLES WILL ARRIVE IN # COOLERS.  
 Please send reports to: dshay@gesonline.com, tbeaumont@gesonline.com  
[NERRegion@gesonline.com](mailto:NERRegion@gesonline.com), [ges@gesonline.com](mailto:ges@gesonline.com)

SPECIFIC EDD NAME:  
 |NGOgdensburg-labnumber.28351.EQEDD.zip

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
DATE Signed (MM / DD / YY)					

Sampling Personnel: KC GE  
 Job Number: 0603200-136690-221  
 Well Id. **MW-2(R)**

Date: 10/1/20  
 Weather: Sunny 70  
 Time In: 13:40 Time Out: 14:00

Well Information			TOC	Other
Depth to Water:	(feet)	<u>3.92</u>		
Depth to Bottom:	(feet)	<u>6.35</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>2.43</u>		
Volume of Water in Well:	(gal)	<u>0.38</u>		
Three Well Volumes:	(gal)	<u>1.14</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>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 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)
13:45	5.25	17.18	7.04	-330	0.780	40.5	0.79	0.493
13:50	5.40	16.18	7.31	-311	0.703	27.4	4.62	0.450
13:55	5.98	16.97	8.55	-369	0.673	23.3	4.64	0.427
14:02		SAMPLE BOTTLES GOING UP						
14:05								
14:10								
14:15								

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-2(R)-1020 Duplicate? Yes  No   
 Sample Time: 13:55 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

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

Laboratory: Pace Analytical  
 Greensburg, PA

Sampling Personnel: VL GH  
 Job Number: 0603200-136690-221  
 Well Id. **MW-5R(R)**

Date: 10/1/20  
 Weather: Sun 70  
 Time In: 14:20 Time Out: 14:45

Well Information			TOC	Other
Depth to Water:	(feet)		<u>2.75</u>	
Depth to Bottom:	(feet)		<u>24.30</u>	
Depth to Product:	(feet)			
Length of Water Column:	(feet)		<u>21.55</u>	
Volume of Water in Well:	(gal)		<u>3.44</u>	
Three Well Volumes:	(gal)		<u>10.34</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"/>	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>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)
14:05	4.29	16.70	9.48	-412	0.903	49.5	0.86	0.581
14:10	5.71	16.18	9.55	-416	0.933	34.7	0.73	0.598
14:15	6.57	16.38	9.62	-421	0.923	23.5	0.67	0.590
14:20	7.13	15.85	9.76	-430	0.884	22.8	0.64	0.565
14:25	7.84	15.50	9.97	-438	0.826	20.0	0.69	0.527
14:30	8.19	15.34	10.05	-442	0.777	18.8	0.68	0.496
14:35	8.70	15.25	10.05	-444	0.737	11.8	0.71	0.470

Sampling Information:			
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-5R(R)-1020</b>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>14:40</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: KL GE  
 Job Number: 0603200-136690-221  
 Well Id. MW-8R

Date: 10/1/00  
 Weather: PC 60  
 Time In: 10:30 Time Out: \_\_\_\_\_

Well Information		TOC	Other
Depth to Water:	(feet)	<u>2.20</u>	
Depth to Bottom:	(feet)	<u>20.92</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>18.72</u>	
Volume of Water in Well:	(gal)	<u>2.99</u>	
Three Well Volumes:	(gal)	<u>8.98</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: Product in Tubing ~ 2' inside

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=133.7cu. feet				
Duration of Pumping:	(min) <u>30</u>					
Total Volume Removed:	(gal) <u>2</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)
<u>10:45</u>	<u>2.89</u>	<u>19.82</u>	<u>7.70</u>	<u>-280</u>	<u>0.658</u>	<u>79.0</u>	<u>2.38</u>	<u>0.418</u>
<u>10:50</u>	<u>4.73</u>	<u>18.16</u>	<u>7.42</u>	<u>-360</u>	<u>0.660</u>	<u>53.9</u>	<u>2.04</u>	<u>0.422</u>
<u>10:55</u>	<u>5.23</u>	<u>18.40</u>	<u>7.40</u>	<u>-368</u>	<u>0.658</u>	<u>51.3</u>	<u>2.10</u>	<u>0.421</u>
<u>11:00</u>	<u>6.06</u>	<u>18.32</u>	<u>7.36</u>	<u>-380</u>	<u>0.669</u>	<u>29.0</u>	<u>2.17</u>	<u>0.428</u>
<u>11:05</u>	<u>6.63</u>	<u>18.37</u>	<u>7.34</u>	<u>-386</u>	<u>0.675</u>	<u>30.1</u>	<u>2.18</u>	<u>0.431</u>
<u>11:10</u>	<u>7.26</u>	<u>18.12</u>	<u>7.36</u>	<u>-393</u>	<u>0.678</u>	<u>12.0</u>	<u>2.20</u>	<u>0.433</u>
<u>11:15</u>	<u>7.48</u>	<u>18.18</u>	<u>7.34</u>	<u>-395</u>	<u>0.681</u>	<u>10.1</u>	<u>2.14</u>	<u>0.436</u>
<u>11:20</u>	<u>7.75</u>	<u>18.17</u>	<u>7.33</u>	<u>-397</u>	<u>0.684</u>	<u>9.7</u>	<u>2.14</u>	<u>0.438</u>

Sampling Information:		Shipped:	
EPA SW-846 Method 8270	SVOC PAH's	6 - 100 ml ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	9 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide	3 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>MW-8R-MS-1020 MW-8R-MSD-1020</b>		Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample ID: <u>MW-8R-1020</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ship to Pace	<input type="checkbox"/>
Sample Time: <u>11:20</u>	MS/MSD? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Laboratory: Pace Analytical	
Comments/Notes:		Greensburg, PA	

Sampling Personnel: KL GE Date: 10/1/20  
 Job Number: 0603200-136690-221 Weather: PC SZ  
 Well Id. MW-9 Time In: 09:40 Time Out: \_\_\_\_\_

Well Information			TOC	Other
Depth to Water:	(feet)	<u>4.85</u>		
Depth to Bottom:	(feet)	<u>6.35</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>1.45</u>		
Volume of Water in Well:	(gal)	<u>0.232</u>		
Three Well Volumes:	(gal)	<u>0.696</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>200</u>		1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min)	<u>~10 min</u>						
Total Volume Removed:	(gal)		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)
<del>10:00</del>								
10:05	5.85	16.66	8.82	-227	1.32	160	11.14	0.848
10:10	sampled - well going dry							
10:15								
10:20								
10:25								
10:30								
10:35								

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-9-1020 Duplicate? Yes  No   
 Sample Time: 10:09:40 MS/MSD? Yes  No   
 Shipped: Pace Courier Pickup   
 Ship to Pace

Comments/Notes: \_\_\_\_\_ Laboratory: Pace Analytical Greensburg, PA

Sampling Personnel: GE  
Number: 0603200-136690-221  
Well Id. **MW-10R**

Date: 10/1/2020  
Weather: clear 50's  
Time In: 09:00 Time Out: 09:40

Well Information			TOC	Other
Depth to Water:	(feet)		<u>0.50</u>	
Depth to Bottom:	(feet)		<u>22.50</u>	
Depth to Product:	(feet)		<u>NP</u>	
Length of Water Column:	(feet)		<u>22.0</u>	
Volume of Water in Well:	(gal)		<u>3.52</u>	
Three Well Volumes:	(gal)		<u>10.56</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				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>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"/>					
Meriba 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>09:15</u>	<u>1.37</u>	<u>16.67</u>	<u>7.83</u>	<u>-123</u>	<u>0.586</u>	<u>12.8</u>	<u>1.36</u>	<u>0.374</u>
<u>09:10</u>	<u>2.20</u>	<u>16.58</u>	<u>9.35</u>	<u>-215</u>	<u>0.603</u>	<u>5.9</u>	<u>1.00</u>	<u>0.388</u>
<u>09:15</u>	<u>2.49</u>	<u>16.39</u>	<u>9.77</u>	<u>-273</u>	<u>0.698</u>	<u>3.8</u>	<u>0.83</u>	<u>0.449</u>
<u>09:20</u>	<u>2.85</u>	<u>16.10</u>	<u>9.95</u>	<u>-304</u>	<u>0.743</u>	<u>0.0</u>	<u>0.78</u>	<u>0.476</u>
<u>09:25</u>	<u>3.07</u>	<u>15.94</u>	<u>9.93</u>	<u>-315</u>	<u>0.741</u>	<u>0.0</u>	<u>0.78</u>	<u>0.474</u>
<u>09:30</u>	<u>3.35</u>	<u>15.87</u>	<u>9.94</u>	<u>-330</u>	<u>0.740</u>	<u>0.0</u>	<u>0.80</u>	<u>0.473</u>
<u>09:35</u>	<u>3.54</u>	<u>15.80</u>	<u>9.93</u>	<u>-339</u>	<u>0.739</u>	<u>0.0</u>	<u>0.79</u>	<u>0.473</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	4 - 100 ml ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	6 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 9012	Total Cyanide	2 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>FD-1020</b>			
Sample ID: <u>MW-10R-1020</u>	Duplicate? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>09:40</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: GE  
 Job Number: 0603200-136690-221  
 Well Id. **MW-11**

Date: 10/1/20  
 Weather: Clear 60's  
 Time In: 12:45 Time Out: \_\_\_\_\_

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>3.49</u>	
Depth to Bottom: (feet)	<u>6.51</u>	
Depth to Product: (feet)	<u>NP</u>	
Length of Water Column: (feet)	<u>3.07</u>	
Volume of Water in Well: (gal)	<u>0.49</u>	
Three Well Volumes: (gal)	<u>1.44</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			
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 checked="" 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)	<u>200</u>		
Duration of Pumping: (min)	_____		
Total Volume Removed: (gal)	_____		
iba 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				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
12:55	3.77	15.48	7.72	-346	1.31	20.2	1.52	0.857
13:00	3.77	15.07	7.20	-325	1.54	17.4	0.98	0.987
13:05	3.80	14.89	7.02	-320	1.57	16.4	0.89	1.01
13:10	3.82	14.77	6.89	-318	1.58	14.9	0.81	1.01
13:15	3.83	14.80	6.85	-317	1.58	14.7	0.79	1.01
13:20	3.84	14.70	6.80	-317	1.59	12.4	0.78	1.01
13:25	3.84	14.65	6.77	-316	1.59	21.1	0.74	1.02

Sampling Information:			
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: <u>MW-11-1020</u>	Duplicate? Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>13:30</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: KL GKB  
 Job Number: 0603200-136690-221  
 Well Id. MW-12R

Date: 10/1/20  
 Weather: clear 60's  
 Time In: 12:00 Time Out: 12:40

Well Information			TOC	Other
Depth to Water:	(feet)	<u>9.34</u>		
Depth to Bottom:	(feet)	<u>21.40</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>12.04</u>		
Volume of Water in Well:	(gal)	<u>1.92</u>		
Three Well Volumes:	(gal)	<u>5.78</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>200</u>		1 gallon=3.785L=3785mL=133.7cu. 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"/>					
Iba 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)
12:00	11.07	19.02	7.78	-416	0.536	17.8	1.84	0.343
12:05	12.27	18.48	7.67	-426	0.537	10.6	1.88	0.344
12:10	13.05	18.26	7.64	-427	0.540	7.4	1.88	0.346
12:15	13.77	18.14	7.64	-429	0.540	8.1	1.88	0.346
12:20	14.35	18.06	7.62	-428	0.544	7.4	1.86	0.348
12:25	<del>17.54</del> 15.44	17.95	7.60	-434	0.533	7.9	1.83	0.354
12:30	16.48	17.95	7.59	-431	0.551	7.0	1.77	0.352

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-12R-1020 Duplicate? Yes  No   
 Sample Time: 12:35 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

Laboratory: Pace Analytical Greensburg, PA

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



Sampling Personnel: Liam Walker  
 Job Number: 0603200-136690-221  
 Well Id. MW-14R

Date: 10-1-20  
 Weather: Clary 65°  
 Time In: 1035 Time Out: 1120

Well Information			TOC	Other
Depth to Water:	(feet)	<u>TOC</u>		
Depth to Bottom:	(feet)	<u>50.80</u>		
Depth to Product:	(feet)	<u>ND</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			Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump			
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump			
Average Pumping Rate:	(ml/min)	<u>300</u>				
Duration of Pumping:	(min)	<u>30</u>				
Total Volume Removed:	(gal)	<u>1.0</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Iba U-52 Water Quality Meter Used?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

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)
1040	TOC	13.06	7.68	-246	.657	0.0	6.68	.420
1045	TOC	12.47	7.68	-294	.643	0.0	1.55	.411
1050	TOC	12.54	7.66	-311	.642	0.0	1.46	.411
1055	TOC	12.54	7.66	-324	.637	0.0	1.34	.408
1100	TOC	12.48	7.82	-343	.638	0.0	1.28	.408
1105	TOC	12.45	7.81	-340	.639	0.0	1.28	.408
1110	TOC	12.42	7.77	-339	.640	0.0	1.28	.407

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-14R-1020 Duplicate? Yes  No   
 Sample Time: 1115 MS/MSD? Yes  No

Shipped: Pace Courier Pickup   
 Ship to Pace

Laboratory: Pace Analytical  
 Greensburg, PA

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

Sampling Personnel: Liam Walker  
 Job Number: 0603200-136690-221  
 Well Id. **MW-15**

Date: 10-1-20  
 Weather: Cloudy 65  
 Time In: 1355 Time Out:

Well Information			
		TOC	Other
Depth to Water:	(feet)	<u>8.06</u>	
Depth to Bottom:	(feet)	<u>9.04</u>	
Depth to Product:	(feet)	<u>ND</u>	
Length of Water Column:	(feet)	<u>1.98</u>	
Volume of Water in Well:	(gal)	<u>1.15</u>	
Three Well Volumes:	(gal)	<u>.47</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			
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)	<u>200</u>	
Duration of Pumping:	(min)	<u>30</u>	
Total Volume Removed:	(gal)	<u>2</u>	Did well go dry? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
iba 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=133.7cu. feet				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1400</u>	<u>8.27</u>	<u>16.76</u>	<u>7.13</u>	<u>-265</u>	<u>1.22</u>	<u>1000</u>	<u>4.23</u>	<u>.782</u>
<u>1405</u>	<u>8.34</u>	<u>16.55</u>	<u>7.03</u>	<u>-266</u>	<u>1.22</u>	<u>520</u>	<u>2.20</u>	<u>.782</u>
<u>1410</u>	<u>8.39</u>	<u>16.26</u>	<u>6.97</u>	<u>-266</u>	<u>1.22</u>	<u>309</u>	<u>1.65</u>	<u>.782</u>
<u>1415</u>	<u>8.45</u>	<u>16.13</u>	<u>6.94</u>	<u>-264</u>	<u>1.22</u>	<u>87.8</u>	<u>1.42</u>	<u>.779</u>
<u>1420</u>	<u>8.51</u>	<u>16.47</u>	<u>6.80</u>	<u>-251</u>	<u>1.20</u>	<u>110</u>	<u>1.87</u>	<u>.768</u>
<u>1425</u>	<u>8.60</u>	<u>16.34</u>	<u>6.91</u>	<u>-252</u>	<u>1.22</u>	<u>875</u>	<u>2.30</u>	<u>.783</u>
<u>1430</u>	<u>8.73</u>	<u>15.82</u>	<u>6.75</u>	<u>-248</u>	<u>1.21</u>	<u>186</u>	<u>2.03</u>	<u>.773</u>

Sampling Information:			
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: <u>MW-15-1020</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>1445</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ship to Pace	<input type="checkbox"/>
Comments/Notes: <u>Well Run DRY @ 30 min</u>		Laboratory: Pace Analytical	
<u>- Awaiting recharge + collect sample</u>		Greensburg, PA	

Sampling Personnel: LITAM WAMAR  
 Job Number: 0603200-136690-221  
 Well Id. **MW-15RS**

Date: 10-1-20  
 Weather: Cloudy 65°  
 Time In: 1310 Time Out: 1355

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>8.40</u>	
Depth to Bottom: (feet)	<u>23.65</u>	
Depth to Product: (feet)	<u>ND</u>	
Length of Water Column: (feet)	<u>15.25</u>	
Volume of Water in Well: (gal)	<u>.61</u>	
Three Well Volumes: (gal)	<u>1.83</u>	

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

Purging Information		
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>
Average Pumping Rate: (ml/min)	<u>200</u>	Grundfos Pump <input type="checkbox"/>
Duration of Pumping: (min)	<u>30</u>	Polyethylene <input checked="" type="checkbox"/>
Total Volume Removed: (gal)	<u>1.0</u>	Grundfos Pump <input type="checkbox"/>
Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
iba 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				

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1315</u>	<u>8.88</u>	<u>14.91</u>	<u>7.44</u>	<u>-321</u>	<u>1.26</u>	<u>16.1</u>	<u>5.33</u>	<u>.813</u>
<u>1320</u>	<u>9.22</u>	<u>14.83</u>	<u>7.38</u>	<u>-344</u>	<u>1.28</u>	<u>13.4</u>	<u>2.86</u>	<u>.818</u>
<u>1325</u>	<u>9.79</u>	<u>14.63</u>	<u>7.41</u>	<u>-362</u>	<u>1.28</u>	<u>5.9</u>	<u>1.63</u>	<u>.823</u>
<u>1330</u>	<u>10.56</u>	<u>14.72</u>	<u>7.42</u>	<u>-367</u>	<u>1.31</u>	<u>1.2</u>	<u>1.31</u>	<u>.839</u>
<u>1335</u>	<u>11.19</u>	<u>14.73</u>	<u>7.40</u>	<u>-367</u>	<u>1.34</u>	<u>.7</u>	<u>1.18</u>	<u>.857</u>
<u>1340</u>	<u>12.47</u>	<u>14.74</u>	<u>7.42</u>	<u>-369</u>	<u>1.34</u>	<u>0.0</u>	<u>1.21</u>	<u>.857</u>
<u>1345</u>	<u>13.90</u>	<u>14.79</u>	<u>7.40</u>	<u>-371</u>	<u>1.34</u>	<u>0.0</u>	<u>1.24</u>	<u>.858</u>

Sampling Information:			
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: <u>MW-15RS-1020</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>1350</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: LAM WATKIN Date: 10-1-20  
 Job Number: 0603200-136690-221 Weather: OVERCAST 60°  
 Well Id. MW-17R Time In: 0900 Time Out: 1020

Well Information			Well Type:
Depth to Water:	(feet)	7.16	Flushmount <input checked="" type="checkbox"/> Stick-Up <input type="checkbox"/>
Depth to Bottom:	(feet)	26.90	Well Locked: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth to Product:	(feet)	ND	Measuring Point Marked: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Length of Water Column:	(feet)	19.74	Well Material: PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Other: _____
Volume of Water in Well:	(gal)	3.15	Well Diameter: 1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/> Other: _____
Three Well Volumes:	(gal)	9.47	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>35</u>					
Total Volume Removed:	(gal) <u>1.0</u>					
iba 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)
0935	8.04	14.59	6.76	-117	1.07	15.5	3.72	.682
0940	8.72	14.40	6.96	-161	1.04	9.1	1.78	.665
0945	8.96	14.53	7.11	-175	1.03	9.3	1.53	.662
0950	9.23	14.38	7.10	-179	1.03	7.8	1.25	.662
0955	9.42	14.45	7.20	-189	1.03	8.2	1.03	.658
1000	9.49	14.60	7.28	-195	1.03	8.8	1.05	.659
1005	9.56	14.63	7.30	-199	1.03	9.0	1.04	.657
1010	9.61	14.72	7.31	-206	1.02	8.7	1.02	.658

Sampling Information:			
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: <u>MW-17R-1020</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>1015</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: LIAM WALKER  
 Job Number: 0603200-136690-221  
 Well Id. **MW-19R**

Date: 10-1-20  
 Weather: Cloudy - 65°  
 Time In: 1200 Time Out: 1305

Well Information			TOC	Other
Depth to Water:	(feet)	<u>A-32</u>		
Depth to Bottom:	(feet)	38.05		
Depth to Product:	(feet)	<u>ND</u>		
Length of Water Column:	(feet)	<u>5.39</u>	<u>33.73</u>	
Volume of Water in Well:	(gal)	<u>5.39</u>		
Three Well Volumes:	(gal)	<u>16.19</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. of water	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"/>	0.04	0.16	0.66	1.47	
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet				
Average Pumping Rate:	(ml/min)	<u>200</u>	Did well go dry?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Duration of Pumping:	(min)	<u>30</u>	Horiba U-52 Water Quality Meter Used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Total Volume Removed:	(gal)	<u>1.0</u>						

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1225	5.95	14.97	7.99	-214	.503	0.0	2.25	.323
1230	7.61	15.52	8.20	-257	.501	0.0	1.50	.321
1235	8.90	15.28	8.24	-259	.512	0.0	1.24	.328
1240	9.94	15.02	8.27	-256	.503	0.0	1.11	.322
1245	11.35	14.96	7.99	-227	.472	0.0	.97	.306
1250	12.06	14.95	7.99	-222	.472	0.0	.98	.301
1255	12.49	14.97	7.98	-217	.470	0.0	.98	.298

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-19R-1020 Duplicate? Yes  No   
 Sample Time: 1300 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: Caroline  
 Job Number: 0603200-136690-221  
 Well Id. **MW-20R**

Date: 10.1.20  
 Weather: Cloudy 65°  
 Time In: 1130 Time Out: 1215

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>TOC</u>	
Depth to Bottom: (feet)	<u>28.40</u>	
Depth to Product: (feet)	<u>ND</u>	
Length of Water Column: (feet)	<u>28.40</u>	
Volume of Water in Well: (gal)	<u>4.54</u>	
Three Well Volumes: (gal)	<u>13.63</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		
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)	<u>200</u>	
Duration of Pumping: (min)	<u>30</u>	
Total Volume Removed: (gal)	<u>1.0</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"/>	

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)
1135	1.59	15.01	7.69	-206	.668	17.9	2.88	.427
1140	2.91	15.07	7.56	-201	.664	1.8	1.27	.425
1145	3.62	15.25	7.46	-196	.662	1.8	1.21	.425
1150	4.25	15.26	7.59	-204	.663	.3	1.15	.425
1155	4.75	15.17	7.61	-205	.663	.3	1.08	.424
1200	5.41	15.42	7.63	-207	.661	0.0	1.04	.423
1205	5.69	15.49	7.62	-203	.662	0.0	1.01	.423

Sampling Information:			
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: <u>MW-20R-1020</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>1210</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	





## 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

August 13, 2020

Devin Shay  
Groundwater & Environmental Services, Syracuse  
5 Technology Place, Suite 4  
East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid - Ogdensburg: Data Packages Pace Analytical Job No. **30372824**

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the July 2020 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 polynuclear 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
- Instrument MDLs
- 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.

### **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. The blind field duplicate correlations of **MW-10R** were within the project specification of  $\leq 25\%$ .

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

Holding times were met. Instrumental tune fragmentations are within acceptance ranges. Blanks no above RL concentrations, with the exception of low concentrations of 2-methylnaphthalene and naphthalene in the method blank. Sample locations that reported positively detected concentrations less than 5x the concentration in the blank cannot be attributed to the sampling location, and must be qualified as unreliable/unusable. This occurred in the following samples:

- MW-11, MW-14R, MW15RS, MW-20R for both naphthalene and 2-methylnaphthalene
- MW-17R, MW-19R for naphthalene only

Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines. that Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. Although sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair, and the results cannot be considered accurate for the following samples:

- FD-0720 (Lab ID: 30372824014)
- MW-12R-0720 (Lab ID: 30372824007)
- MW-5R(R)-0720 (Lab ID: 30372824002)

The field duplicate (FD) was collected at location MW-10R. Whereas the original sample at MW-10R was quantitated with sufficient resolution, the FD sample does not require qualification, as it agrees with the concentrations in the original sample. MW-12R and MW-5R are qualified as estimated non-detect.

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 2-methylnphtalene and fluorene. The original concentrations of these two analytes were  $> 4x$  the spiking concentrations, so accuracy cannot be determined from the spike recovery, and, therefore, no qualifications were required. The blind field duplicate correlations of **MW-10R** were within project specification of  $RPD \leq 25\%$ .

Surrogate Terphenyl d-14 was low for sample MW-15.

## **1 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 that reads 'B Janowiak'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Bonnie Janowiak, Ph.D.  
Senior Chemist

## SAMPLE SUMMARY

Project: National Grid - Ogdensburg Kin  
Pace Project No.: 30372824

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30372824001	MW-2(R)-0720	Water	07/14/20 11:00	07/16/20 09:30
30372824002	MW-5R(R)-0720	Water	07/14/20 10:10	07/16/20 09:30
30372824003	MW-8R-0720	Water	07/14/20 10:00	07/16/20 09:30
30372824004	MW-9-0720	Water	07/14/20 14:30	07/16/20 09:30
30372824005	MW-10R-0720	Water	07/14/20 13:40	07/16/20 09:30
30372824006	MW-11-0720	Water	07/14/20 12:00	07/16/20 09:30
30372824007	MW-12R-0720	Water	07/14/20 12:50	07/16/20 09:30
30372824008	MW-14R-0720	Water	07/14/20 11:30	07/16/20 09:30
30372824009	MW-15-0720	Water	07/14/20 13:40	07/16/20 09:30
30372824010	MW-15RS-0720	Water	07/14/20 14:25	07/16/20 09:30
30372824011	MW-17R-0720	Water	07/14/20 10:45	07/16/20 09:30
30372824012	MW-19R-0720	Water	07/14/20 13:00	07/16/20 09:30
30372824013	MW-20R-0720	Water	07/14/20 12:15	07/16/20 09:30
30372824014	FD-0720	Water	07/14/20 00:01	07/16/20 09:30
30372824015	Trip Blanks	Water	07/14/20 00:01	07/16/20 09:30

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

---

**Method:** EPA 8270D by SIM

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

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

**Date:** July 28, 2020

### General Information:

14 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.

ip: Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

- FD-0720 (Lab ID: 30372824014)
- MW-12R-0720 (Lab ID: 30372824007)
- MW-5R(R)-0720 (Lab ID: 30372824002)

### 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: 405747

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

- MW-15-0720 (Lab ID: 30372824009)
- Terphenyl-d14 (S)

### Method Blank:

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

QC Batch: 405747

B: Analyte was detected in the associated method blank.

- BLANK for HBN 405747 [OEXT/416 (Lab ID: 1963756)]
  - 2-Methylnaphthalene
  - Naphthalene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

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**Method:** EPA 8270D by SIM

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

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

**Date:** July 28, 2020

### 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: 405747

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30372824003

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

- MS (Lab ID: 1963758)
  - 2-Methylnaphthalene
- MSD (Lab ID: 1963759)
  - Fluorene

### Additional Comments:

Analyte Comments:

QC Batch: 405747

1c: This sample was re-extracted past the method required holding time. Surrogate recovery in the re-extract was acceptable and the re-extract results were comparable to the original results. The original, in hold, results are reported.

- MW-15-0720 (Lab ID: 30372824009)
  - Terphenyl-d14 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

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**Method:** EPA 8260C

**Description:** 8260C MSV

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

**Date:** July 28, 2020

**General Information:**

15 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: 406825

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

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**Method:** EPA 9012B

**Description:** 9012B Cyanide, Total

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

**Date:** July 28, 2020

**General Information:**

14 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.

**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

December 14, 2020

Devin Shay  
Groundwater & Environmental Services, Syracuse  
5 Technology Place, Suite 4  
East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid - Ogdensburg: Data Packages Pace Analytical Job No. **30372824**

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the July 2020 sampling event at the National Grid Ogdensburg site. Twelve 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

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.

### **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. The blind field duplicate correlations of **MW-10R** were within the project specification of  $\leq 25\%$ .

### **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-2R. The original concentration was  $> 4x$  that of the spike, so the out-of-specification recovery does not indicate an issue with method efficacy. The blind field duplicate correlations of **MW-10R** were within project criteria. No data was qualified.

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

Holding times were met. Instrumental tune fragmentations are within acceptance ranges. Blanks no above RL concentrations, with the exception of low concentrations of naphthalene in the method blank. Sample locations that reported positively detected concentrations less than 5x the concentration in the blank cannot be attributed to the sampling location, and must be qualified as unreliable/unusable. This occurred in the following samples:

- MW-11, MW15, MW-17R, MW-19R, and MW-20R

Surrogates were within specification for all samples. 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. Matrix spike and matrix spike recoveries were within laboratory specified criteria. The blind field duplicate correlations of **MW-10R** were within project specification of  $RPD \leq 25\%$ .

#### **1 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,



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

## SAMPLE SUMMARY

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30385450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30385450001	MW-2(R)-1020	Water	10/01/20 13:55	10/03/20 09:45
30385450002	MW-5(R)-1020	Water	10/01/20 14:40	10/03/20 09:45
30385450003	MW-8R-1020	Water	10/01/20 11:20	10/03/20 09:45
30385450004	MW-8R-MS-1020	Water	10/01/20 11:20	10/03/20 09:45
30385450005	MW-8R-MSD-1020	Water	10/01/20 11:20	10/03/20 09:45
30385450006	MW-9-1020	Water	10/01/20 10:10	10/03/20 09:45
30385450007	MW-10R-1020	Water	10/01/20 09:40	10/03/20 09:45
30385450008	MW-11-1020	Water	10/01/20 13:30	10/03/20 09:45
30385450009	MW-12R-1020	Water	10/01/20 12:35	10/03/20 09:45
30385450010	MW-14R-1020	Water	10/01/20 11:15	10/03/20 09:45
30385450011	MW-15-1020	Water	10/01/20 14:45	10/03/20 09:45
30385450012	MW-15RS-1020	Water	10/01/20 13:50	10/03/20 09:45
30385450013	MW-17R-1020	Water	10/01/20 10:15	10/03/20 09:45
30385450014	MW-19R-1020	Water	10/01/20 13:00	10/03/20 09:45
30385450015	MW-20R-1020	Water	10/01/20 12:10	10/03/20 09:45
30385450016	FD-1020	Water	10/01/20 09:40	10/03/20 09:45
30385450017	TRIP BLANKS	Water	10/01/20 15:00	10/03/20 09:45

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30385450

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**Method:** EPA 8270D by SIM

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

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

**Date:** October 13, 2020

### 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.

QC Batch: 417519

B: Analyte was detected in the associated method blank.

- BLANK for HBN 417519 [OEXT/422 (Lab ID: 2018572)
- Naphthalene

### 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: 417519

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30385450003

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

- MSD (Lab ID: 2018575)
- Acenaphthylene

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30385450

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**Method:** EPA 8260C

**Description:** 8260C MSV

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

**Date:** October 13, 2020

**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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Ogdensburg Kin  
Pace Project No.: 30385450

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**Method:** EPA 9012B  
**Description:** 9012B Cyanide, Total  
**Client:** Groundwater & Environmental Services, Inc. (Syracuse)  
**Date:** October 13, 2020

### 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: 417172

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30385450001,30385450003

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

- MS (Lab ID: 2016972)
  - Cyanide
- MSD (Lab ID: 2016973)
  - 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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