***Steven P. Stucker, C.P.G.***
***Lead Environmental Engineer***

March 6, 2024

Mr. Tracey Garland
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**
**Anthony Street, Watertown, New York**
**Annual Groundwater Monitoring Report**

Dear Mr. Garland:

Enclosed for your review is the 2023 Annual Groundwater Monitoring Report for the NG Watertown Former MGP Site.

Groundwater and Environmental Services, Inc., (GES) OM&M contractor for National Grid, conducts all long-term OM&M activities at the site. Quarterly site inspections were conducted in 2023 (March, June, September and December). The site is generally in good shape and in compliance. There were detections of BTEX and/or PAH in five of the six 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 Watertown (Anthony Street) Former MGP Site
Anthony Street, Watertown NY13601

March 2024

Version 1

## Annual Groundwater Monitoring Report

National Grid Watertown (Anthony St.) Former
MGP Site
Anthony Street
Watertown, NY 13601

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

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

GES Project:
0603400.136010.221

Date:
March 6, 2024

Devin T. Shay, PG
Program Manager / Principal Hydrogeologist

# Table of Contents



## Figures



## Tables



## Appendices

# 1 Introduction

This Annual Groundwater Monitoring Report presents results from the activities conducted at the Watertown (Anthony Street) former non-owned manufactured gas plant (MGP) site located in Watertown, New York (the Site). A site location map is presented on **Figure 1**, and a site map is presented as **Figure 2**. The work summarized in this report is conducted in accordance with the Site Management Plan (SMP) for the Site, which was approved by the New York State Department of Environmental Conservation (NYSDEC) on March 17, 2017.

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

# 2 Annual Groundwater Monitoring

## 2.1 Objectives

The objectives of the June 2023 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 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 amended April 2000 and June 2004.

## 2.2 Groundwater Well Gauging

The June 28, 2023 groundwater monitoring field activities were conducted by GES. Prior to collecting groundwater samples, static fluid level measurements were collected from MW-1, MW-2, MW-3, MW-3R, MW-4E, MW-5R, MW-6R and MW-7R. 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**, and are depicted on **Figure 3**. **Table 1** also includes groundwater elevation measurements obtained during previous groundwater monitoring events.

Groundwater generally flows to the north-northwest from the Site toward the Black River. Groundwater elevations ranged from 422.14 feet above sea level (asl; well MW-7R) to 438.78 feet asl (well MW-2). 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 six (6) monitoring wells on June 28, 2023 (including MW-2, MW-3R, MW-4R, MW-5R, MW-6R and MW-7R). 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), and 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 4**. The Data Usability Summary Report (DUSR) is included in **Appendix C**.

There were BTEX and/or PAH detections in monitoring wells MW-3R, MW-4R, MW-5R, MW-6R, and MW-7R. BTEX, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, 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, MW-3R, MW-4R, MW-5R, and MW-6R. As shown on **Table 2**, in general, BTEX, PAHs, and total cyanide detected in groundwater during the June 2023 sampling event are lower or consistent compared to previous sampling results.

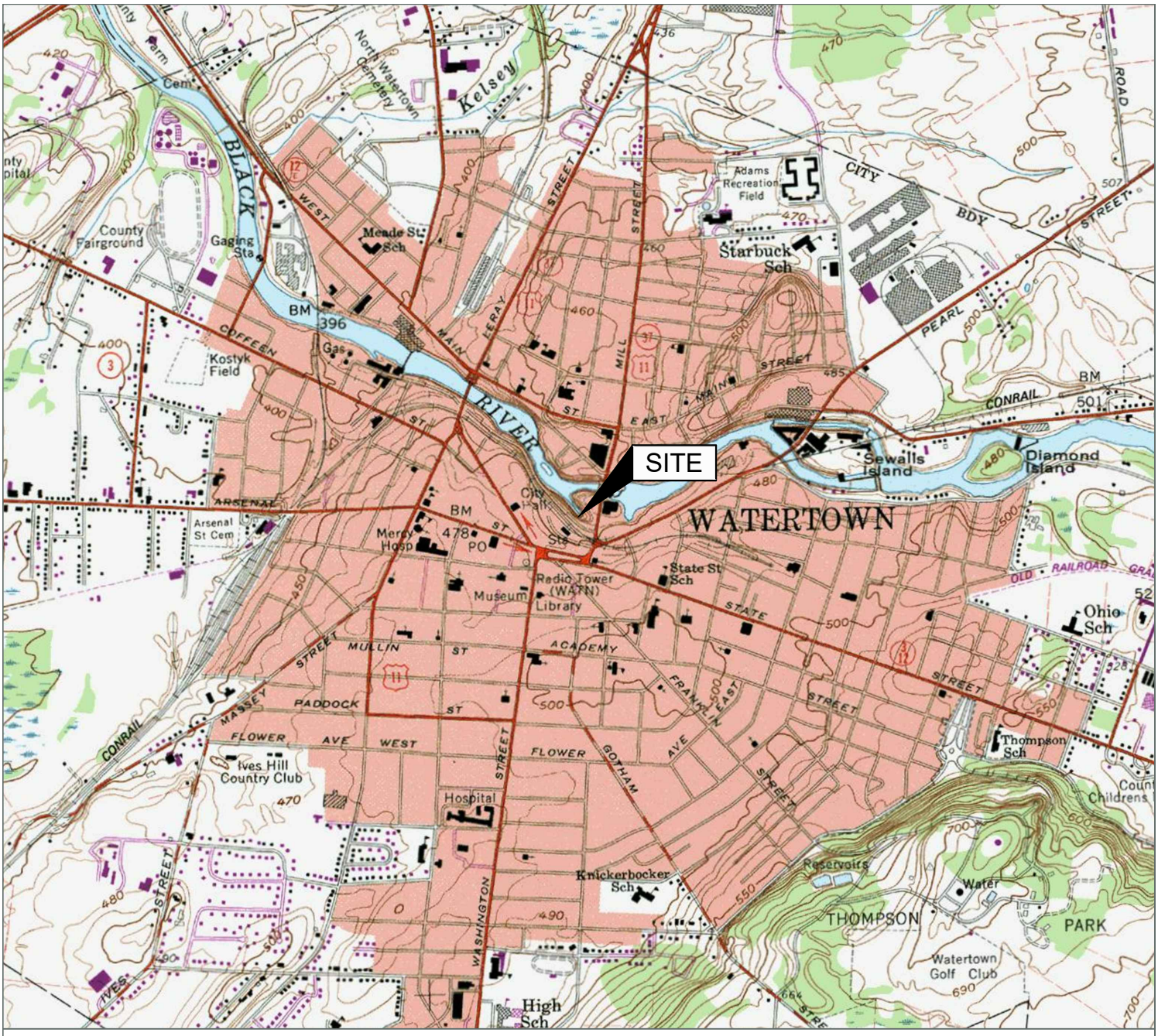
## 3 Quarterly Site-Wide Inspections

The quarterly site-wide inspections were completed on March 9, June 28, September 20, and December 13, 2023. The Site Inspection Forms are presented in **Appendix A**. In general, the Site is in compliance. In August 2023, a fence was installed at the site and GES provided oversight during the excavation for the fence posts. No soil impacts were noted during the fence installation.

# 4 Recommendations

At this time, National Grid recommends continuing the annual monitoring activities. The next annual groundwater sampling event would be in the Summer 2024. 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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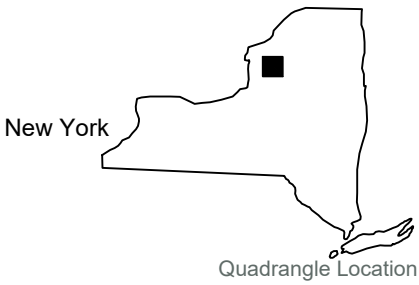
USGS 7.5 Minute Series
Topographic Quadrangle, 1982
Watertown, New York
Contour Interval = 10'




Site Location Map

National Grid
Anthony Street
Watertown, New York

Drawn
W.G.S.
Designed

Approved

Date
8/19/20
Figure
1

Scale In Feet
0 2000

Groundwater & Environmental Services, Inc.

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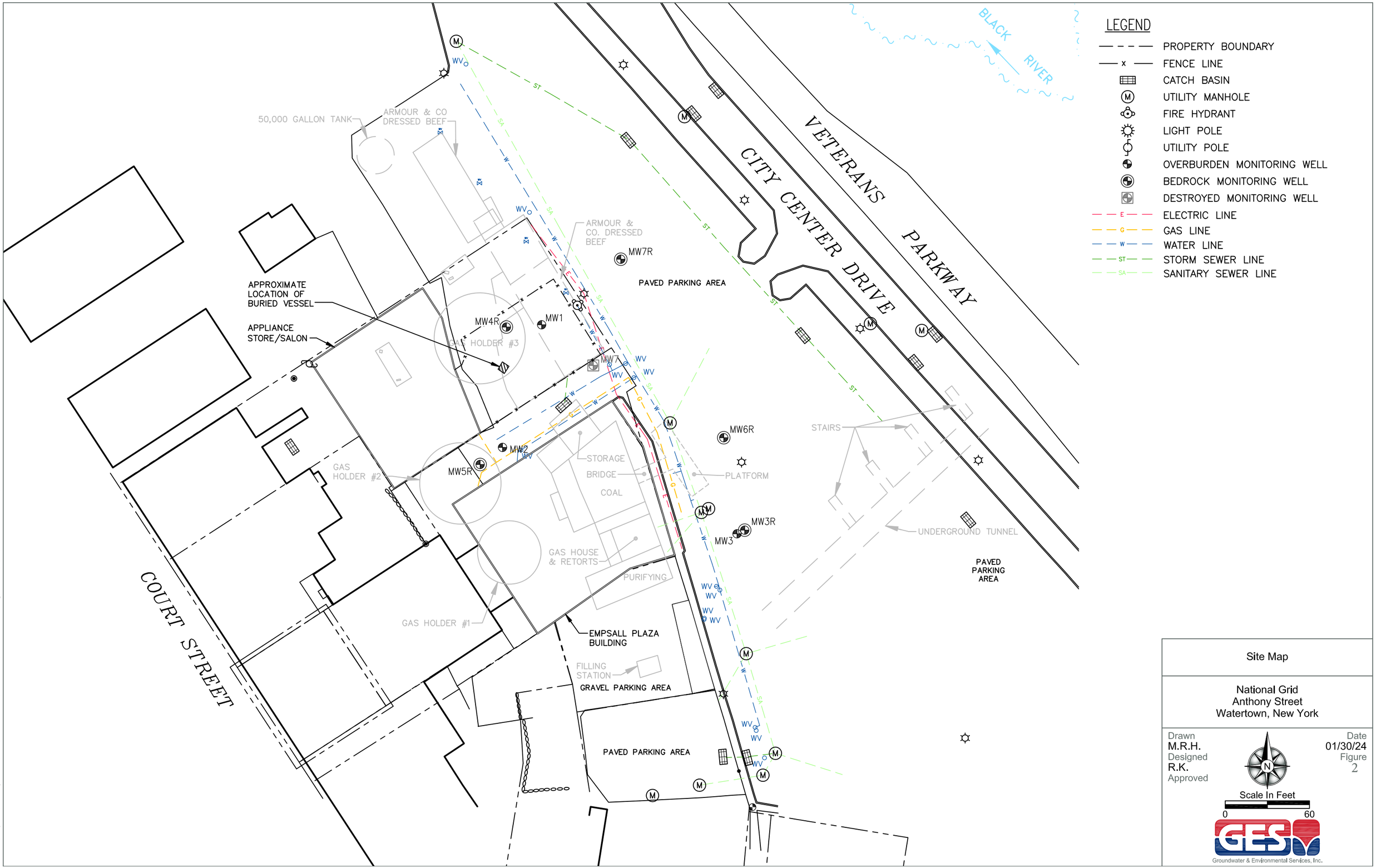


Site Map

National Grid
Anthony Street
Watertown, New York

Drawn
M.R.H.
Designed
R.K.
Approved

Date
01/30/24
Figure
2

Scale In Feet
0 60

Groundwater & Environmental Services, Inc.

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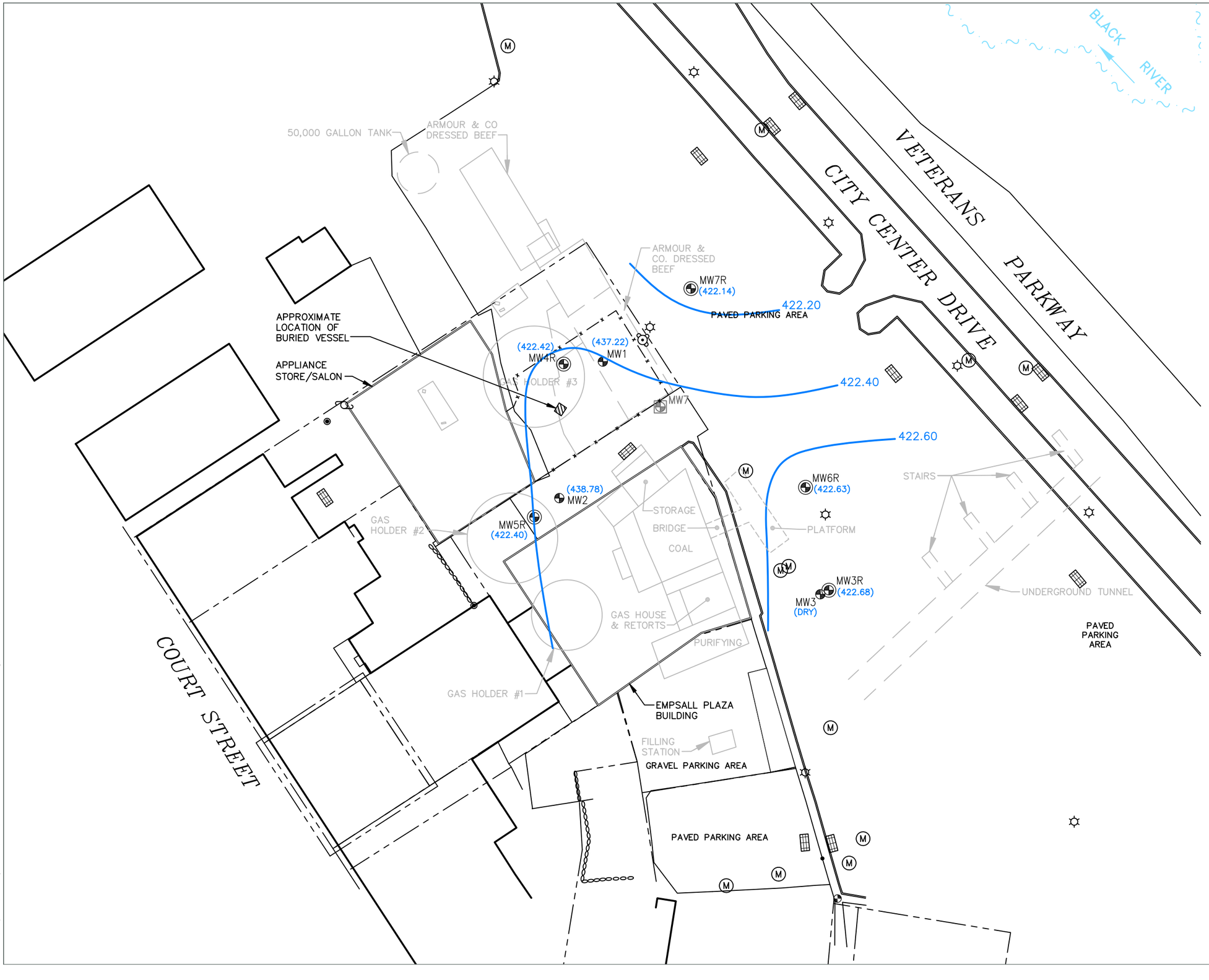


LEGEND

- PROPERTY BOUNDARY
- FENCE LINE
- CATCH BASIN
- UTILITY MANHOLE
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- DESTROYED MONITORING WELL
- (422.10) GROUNDWATER ELEVATION (feet)
- GROUNDWATER CONTOUR (feet)

NOTE:

MW1 AND MW2 WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map
June 28, 2023

National Grid
Anthony Street
Watertown, New York

Drawn M.R.H.
Designed R.K.
Approved

Date 01/30/24
Figure 3

Scale In Feet
0 60

GES
Groundwater & Environmental Services, Inc.

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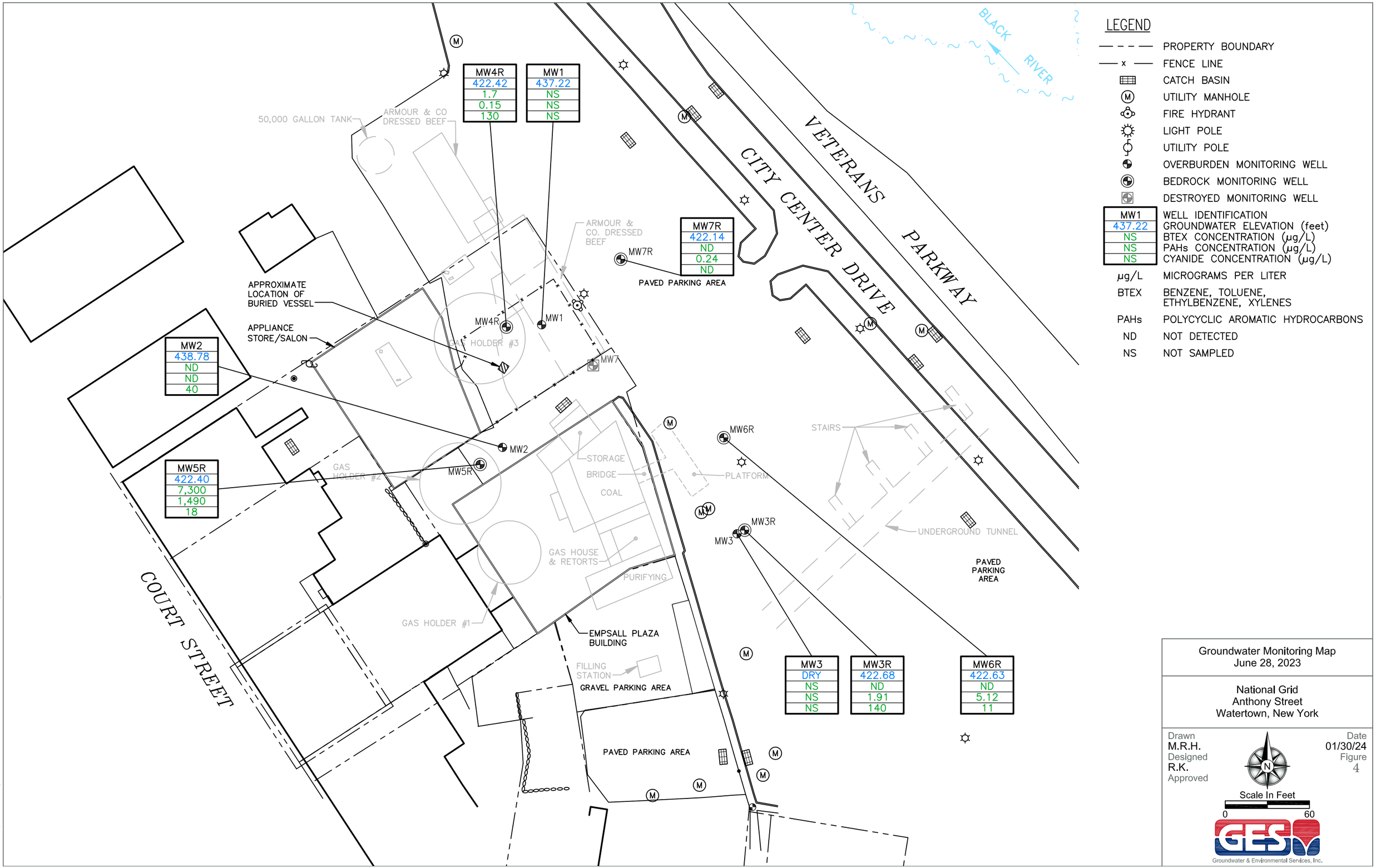


## LEGEND

- PROPERTY BOUNDARY
- FENCE LINE
- CATCH BASIN
- UTILITY MANHOLE
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- DESTROYED MONITORING WELL

| | |
|---|---|
| MW1 | WELL IDENTIFICATION |
| 437.22 | GROUNDWATER ELEVATION (feet) |
| NS | BTEX CONCENTRATION (µg/L) |
| NS | PAHs CONCENTRATION (µg/L) |
| NS | CYANIDE CONCENTRATION (µg/L) |

| | |
|---|---|
| µg/L | MICROGRAMS PER LITER |
| BTEX | BENZENE, TOLUENE, ETHYLBENZENE, XYLENES |
| PAHs | POLYCYCLIC AROMATIC HYDROCARBONS |
| ND | NOT DETECTED |
| NS | NOT SAMPLED |

Groundwater Monitoring Map
June 28, 2023

National Grid
Anthony Street
Watertown, New York

Drawn
M.R.H.
Designed
R.K.
Approved

Date
01/30/24
Figure
4

Scale In Feet
0 60

Groundwater & Environmental Services, Inc.

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# Tables

**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 (12/14/15 | Groundwater Elevation (12/14/15) | Depth To Water (08/11/20) | Groundwater Elevation (08/11/20) | Depth To Water (06/23/21) | Groundwater Elevation (06/23/21) | Depth To Water (06/08/22) | Groundwater Elevation (06/08/22) | Depth To Water (06/28/23) | Groundwater Elevation (06/28/23) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | Flushmount; PVC; 2-inch | 444.62 | 8.50 | 436.12 | 3.00 - 8.00 | 7.47 | 436.92 | 7.11 | 437.51 | 7.45 | 437.17 | 7.44 | 437.18 | 7.40 | 437.22 |
| MW-2 | Flushmount; PVC; 2-inch | 444.60 | 8.50 | 436.10 | 3.00 - 8.00 | 6.00 | 438.35 | 5.68 | 438.92 | 5.52 | 439.08 | 5.30 | 439.30 | 5.82 | 438.78 |
| MW-3 | Flushmount; PVC; 2-inch | 445.39 | 8.70 | 436.69 | 3.20 - 8.20 | 7.25 | 438.40 | DRY | - | 5.74 | 439.65 | DRY | - | DRY | - |
| MW-3R | Flushmount; PVC; 2-inch | 445.48 | 24.40 | 421.08 | 14.40 - 24.00 | 22.81 | 422.52 | 22.82 | 422.66 | 22.82 | 422.66 | 22.78 | 422.70 | 22.80 | 422.68 |
| MW-4R | Flushmount; PVC; 2-inch | 444.76 | 50.00 | 394.76 | 20.00 - 40.00 | 23.11 | 421.22 | 22.28 | 422.48 | 22.39 | 422.37 | 22.40 | 422.36 | 22.34 | 422.42 |
| MW-5R | Flushmount; PVC; 2-inch | 444.60 | 50.00 | 394.60 | 20.00 - 40.00 | 22.02 | 422.04 | 22.00 | 422.60 | 22.30 | 422.30 | 22.23 | 422.37 | 22.20 | 422.40 |
| MW-6R | Flushmount; PVC; 2-inch | 445.16 | 50.00 | 395.16 | 18.00 - 40.00 | 22.56 | 421.69 | 22.57 | 422.59 | 22.56 | 422.60 | 22.53 | 422.63 | 22.53 | 422.63 |
| MW-7R | Flushmount; PVC; 2-inch | 443.60 | 45.00 | 398.60 | 18.00 - 40.00 | 21.45 | 421.67 | 21.40 | 422.20 | 21.48 | 422.12 | 21.45 | 422.15 | 21.46 | 422.14 |

**Table 2**

**Groundwater Analytical Data**

MW-1

| | NYSDEC TOGS 1.1.1 Guidance Values | Units | 10/27/05 | 09/08/10 | 06/25/13 | 12/15/15 | 08/11/20 |
|---|---|---|---|---|---|---|---|
| **BTEX** | | | ND | ND | ND | ND | ND |
| Benzene | 1 | µg/L | ND | ND | ND | ND | ND |
| Ethylbenzene | 5 | µg/L | ND | ND | ND | ND | ND |
| Toluene | 5 | µg/L | ND | ND | ND | ND | ND |
| Total Xylenes | 5 | µg/L | ND | ND | ND | ND | ND |
| | | | | | | | |
| **SVOCs** | | | ND | ND | 6.8 J | ND | 0.95 |
| Acenaphthene | 20 | µg/L | ND | ND | ND | ND | ND |
| Acenaphthylene | - - | µg/L | ND | ND | ND | ND | ND |
| Anthracene | 50 | µg/L | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | 0.002 | µg/L | ND | ND | **0.86 J** | ND | ND |
| Benzo(a)pyrene | ND | µg/L | ND | ND | 0.79 J | ND | ND |
| Benzo(b)fluoranthene | 0.002 | µg/L | ND | ND | **1.1 J** | ND | ND |
| Benzo(g,h,i)perylene | - - | µg/L | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND |
| Chrysene | 0.002 | µg/L | ND | ND | **0.78 J** | ND | ND |
| Dibenz(a,h)anthracene | - - | µg/L | ND | ND | ND | ND | ND |
| Fluoranthene | 50 | µg/L | ND | ND | ND | ND | ND |
| Fluorene | 50 | µg/L | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | ND | ND | ND | ND | ND |
| Naphthalene | 10 | µg/L | ND | ND | ND | ND | 0.95 |
| Phenanthrene | 50 | µg/L | ND | ND | 0.77 J | ND | ND |
| Pyrene | 50 | µg/L | ND | ND | 1.2 J | ND | ND |
| | | | | | | | |
| **Inorganics** | | | | | | | |
| Cyanide, Total | 200 | µg/L | **744** | **596** | **210** | 31 | 150 |

**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-2

| | NYSDEC TOGS 1.1.1 Guidance Values | Units | 10/27/05 | 10/15/08 | 09/08/10 | 06/25/13 | 12/14/15 | 08/11/20 | 06/23/21 | 06/08/22 | 06/28/23 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BTEX | | | 4.0 J | 5.5 J | 4.2 | 2.8 | 1.4 | 3.2 | 1.1 | 1.6 | ND |
| Benzene | 1 | µg/L | **4.0 J** | **4.3** | **2.4** | **2.8** | **1.4** | **3.2** | **1.1** | **1.6** | ND |
| Ethylbenzene | 5 | µg/L | ND | 0.90 J | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 5 | µg/L | ND | ND | 1.8 | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5 | µg/L | ND | 0.30 J | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | | |
| SVOCs | | | ND | 4.3 J | 2.4 J | ND | ND | 1.3 | 1.1 | 0.50 | ND |
| Acenaphthene | 20 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acenaphthylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Anthracene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ND | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chrysene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibenz(a,h)anthracene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluoranthene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluorene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Naphthalene | 10 | µg/L | ND | 4.3 J | 2.4 J | ND | ND | 1.3 | 1.1 | 0.50 | ND |
| Phenanthrene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Pyrene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | | |
| Inorganics | | | | | | | | | | | |
| Cyanide, Total | 200 | µg/L | 98 | 90 | 127 J | 61 | 50 | 70 | 43 | 52 | 40 |

**Notes:**

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

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

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

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

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

**Table 2**

**Groundwater Analytical Data**

MW-3R

| | NYSDEC TOGS 1.1.1 Guidance Values | Units | 10/15/08 | 09/08/10 | 06/23/13 | 12/14/15 | 08/11/20 | 06/28/23 |
|---|---|---|---|---|---|---|---|---|
| **BTEX** | | | ND | ND | ND | ND | ND | ND |
| Benzene | 1 | µg/L | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5 | µg/L | ND | ND | ND | ND | ND | ND |
| Toluene | 5 | µg/L | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5 | µg/L | ND | ND | ND | ND | ND | ND |
| | | | | | | | | |
| **SVOCs** | | | ND | ND | ND | ND | 1.1 | 1.91 |
| Acenaphthene | 20 | µg/L | ND | ND | ND | ND | ND | ND |
| Acenaphthylene | - - | µg/L | ND | ND | ND | ND | ND | ND |
| Anthracene | 50 | µg/L | ND | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | 0.002 | µg/L | ND | ND | ND | ND | ND | **0.11** |
| Benzo(a)pyrene | ND | µg/L | ND | ND | ND | ND | ND | **0.17** |
| Benzo(b)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | **0.33** |
| Benzo(g,h,i)perylene | - - | µg/L | ND | ND | ND | ND | ND | 0.16 |
| Benzo(k)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | **0.27** |
| Chrysene | 0.002 | µg/L | ND | ND | ND | ND | ND | **0.15** |
| Dibenz(a,h)anthracene | - - | µg/L | ND | ND | ND | ND | ND | ND |
| Fluoranthene | 50 | µg/L | ND | ND | ND | ND | ND | 0.25 |
| Fluorene | 50 | µg/L | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | ND | ND | ND | ND | ND | **0.12** |
| Naphthalene | 10 | µg/L | ND | ND | ND | ND | 1.1 | 0.15 |
| Phenanthrene | 50 | µg/L | ND | ND | ND | ND | ND | ND |
| Pyrene | 50 | µg/L | ND | ND | ND | ND | ND | 0.20 |
| | | | | | | | | |
| **Inorganics** | | | | | | | | |
| Cyanide, Total | 200 | µg/L | 2.5 J | ND | 5.2 J | 5.5 J | ND | 140 |

**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-4R

| | NYSDEC TOGS 1.1.1 Guidance Values | Units | 10/16/08 | 09/07/10 | 06/26/13 | 12/14/15 | 08/11/20 | 06/23/21 | 06/08/22 | 06/28/23 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BTEX** | | | 2,239 | 769 | 23.8 | 7.2 J | 2.1 | 57.0 | 87.8 | 1.7 |
| Benzene | 1 | µg/L | **1,200** | **670 D** | **22** | **7.2 J** | **2.1** | **55.5** | **79.8** | **1.7** |
| Ethylbenzene | 5 | µg/L | **510** | **51** | 1.8 | ND | ND | 1.5 | 4.5 | ND |
| Toluene | 5 | µg/L | **49** | **6.6** | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5 | µg/L | **480** | **41** | ND | ND | ND | ND | 3.5 | 3.5 |
| | | | | | | | | | | |
| **SVOCs** | | | 443 J | 16.89 J | ND | ND | 1.14 | 2.3 | 1.9 | 0.15 |
| Acenaphthene | 20 | µg/L | 4.3 J | ND | ND | ND | ND | ND | ND | ND |
| Acenaphthylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Anthracene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ND | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chrysene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibenz(a,h)anthracene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluoranthene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluorene | 50 | µg/L | 1.3 J | ND | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Naphthalene | 10 | µg/L | **430** | **16** | ND | ND | 1.0 | 2.3 | 1.8 | 0.15 |
| Phenanthrene | 50 | µg/L | 6.9 J | 0.89 J | ND | ND | 0.14 | ND | 0.12 | ND |
| Pyrene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | |
| Cyanide, Total | 200 | µg/L | ND | ND | 11 | 13 | 19 | 12 | 19 | 130 |

**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

| | NYSDEC TOGS 1.1.1 Guidance Values | Units | 10/15/08 | 09/08/10 | 06/23/13 | 12/15/15 | 08/11/20 | 06/23/21 | 06/08/22 | 06/28/23 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BTEX** | | | 20,300 | 12,800 | 27,100 | 8,340 | 29,290 | 17,900 | 29,040 | 7,300 |
| Benzene | 1 | µg/L | **3,800** | **4,200 D** | **6,600 D** | **3900** | **4,370** | **3,350** | **7,760** | **2,180** |
| Ethylbenzene | 5 | µg/L | **2,000** | **2,100 D** | **3,500 D** | **740** | **4,350** | **3,250** | **4,460** | **1,620** |
| Toluene | 5 | µg/L | **9,700** | **3,600 D** | **11,000 D** | **2600** | **13,200** | **6,720** | **10,400** | **1,480** |
| Total Xylenes | 5 | µg/L | **4,800** | **2,900 D** | **6,000 D** | **1100** | **7,370** | **4,580** | **6,420** | **2,020** |
| | | | | | | | | | | |
| **SVOCs** | | | 1,927 J | 2,461 J | 3,598 J | 2,231 J | 7,647 | 3,158 | 4,637 | 1,490 |
| Acenaphthene | 20 | µg/L | **70 J** | **74** | **74 J** | **62 DJ** | **78.1** | **82.2** | **102** | **47.0** |
| Acenaphthylene | - - | µg/L | 69 J | 26 | 56 J | 17 J | 46.3 | 27.1 | ND | 4.4 |
| Anthracene | 50 | µg/L | 11 J | 4.7 | 5.5 J | ND | 4.4 | 3.8 | 4.2 | 1.6 |
| Benzo(a)anthracene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ND | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chrysene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibenz(a,h)anthracene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluoranthene | 50 | µg/L | ND | 1.0 J | ND | 0.66 J | 0.92 | 0.85 | 0.71 | 0.26 |
| Fluorene | 50 | µg/L | 41 J | 29 | 32 J | 21 J | 29.1 | 27.8 | ND | 14.6 |
| Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | ND | ND | **ND** | ND | ND | ND | ND | ND |
| Naphthalene | 10 | µg/L | **1,700** | **2,300 D** | **3,400 D** | **2,200 D** | **7,460** | **2,990** | **4,530** | **1,410** |
| Phenanthrene | 50 | µg/L | 36 J | 26 | 30 J | 20 J | 27.8 | 25.2 | ND | 11.5 |
| Pyrene | 50 | µg/L | ND | 0.71 J | ND | 0.56 J | 0.74 | 0.70 | 0.55 | 0.20 |
| | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | |
| Cyanide, Total | 200 | µg/L | 98 | ND | 180 | 89 | 86 | 96 | 92 | 18 |

**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-6R

| | NYSDEC TOGS 1.1.1 Guidance Values | Units | 10/16/08 | 09/08/10 | 06/25/13 | 12/15/15 | 08/11/20 | 06/23/21 | 06/08/22 | 06/28/23 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BTEX** | | | ND | ND | 0.52 J | ND | ND | ND | ND | ND |
| Benzene | 1 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 5 | µg/L | ND | ND | 0.52 J | ND | ND | ND | ND | ND |
| Total Xylenes | 5 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | |
| **SVOCs** | | | ND | ND | ND | ND | 8.58 | 3.4 | 1.7 | 5.12 |
| Acenaphthene | 20 | µg/L | ND | ND | ND | ND | 0.20 | ND | ND | ND |
| Acenaphthylene | - - | µg/L | ND | ND | ND | ND | 0.12 | ND | ND | ND |
| Anthracene | 50 | µg/L | ND | ND | ND | ND | 0.28 | ND | ND | ND |
| Benzo(a)anthracene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | **0.22** |
| Benzo(a)pyrene | ND | µg/L | ND | ND | ND | ND | ND | ND | ND | **0.43** |
| Benzo(b)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | **0.14** | ND | ND | **0.80** |
| Benzo(g,h,i)perylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | 0.53 |
| Benzo(k)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | **0.65** |
| Chrysene | 0.002 | µg/L | ND | ND | ND | ND | **0.19** | ND | ND | 0.33 |
| Dibenz(a,h)anthracene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluoranthene | 50 | µg/L | ND | ND | ND | ND | 0.38 | ND | ND | 0.55 |
| Fluorene | 50 | µg/L | ND | ND | ND | ND | 0.59 | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | **0.35** |
| Naphthalene | 10 | µg/L | ND | ND | ND | ND | 3.7 | 3.4 | 1.7 | 0.62 |
| Phenanthrene | 50 | µg/L | ND | ND | ND | ND | 2.4 | ND | ND | 0.13 |
| Pyrene | 50 | µg/L | ND | ND | ND | ND | 0.58 | ND | ND | 0.51 |
| | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | |
| Cyanide, Total | 200 | µg/L | ND | ND | ND | ND | ND | ND | 10 | 11 |

**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-7R

| | NYSDEC TOGS 1.1.1 Guidance Values | Units | 10/16/08 | 09/07/10 | 06/25/13 | 12/15/15 | 08/11/20 | 06/23/21 | 06/08/22 | 06/28/23 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BTEX** | | | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 1 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 5 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | |
| **SVOCs** | | | ND | ND | ND | ND | 2.4 | 1.0 | 0.97 | 0.24 |
| Acenaphthene | 20 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Acenaphthylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Anthracene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ND | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chrysene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibenz(a,h)anthracene | - - | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluoranthene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluorene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Naphthalene | 10 | µg/L | ND | ND | ND | ND | 2.4 | 1.0 | 0.97 | 0.24 |
| Phenanthrene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Pyrene | 50 | µg/L | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | |
| Cyanide, Total | 200 | µg/L | 3.1 J | ND | ND | 30 | ND | ND | 12 | 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

# *Site Management Plan Inspection Form*
## *Anthony Street*
## *Former MGP Site*
## *Watertown, New York*

Date: 12/13/2023 Time: 8:00

Technician: KL Weather: Partly Cloudy 34

| *General Site Wide Conditions* | | | | |
|---|---|---|---|---|
| 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: |
| Any repairs, maintenace or corrective actions since the last inspection? | YES | NO | | COMMENTS: |
| Have the front lawns been mowed? | YES | NO | | COMMENTS: |
| Conditon of the asphalt pavement | GOOD | FAIR | POOR | COMMENTS: |
| Conditon of the front sidewalks? | GOOD | FAIR | POOR | COMMENTS: |
| Conditon of the building foundations? | GOOD | FAIR | POOR | COMMENTS: |
| Are the requirements of the SMP being met? | YES | NO | | COMMENTS: |
| Are there any needed changes? | YES | NO | | COMMENTS: |
| Are the site records complete and up to date? | YES | NO | | COMMENTS: |

| *Site Monitoring Wells* | | |
|---|---|---|
| ***Well ID.*** | ***Location Secure*** | |
| **MW-1** | YES | NO |
| **MW-2** | YES | NO |
| **MW-3** | YES | NO |
| **MW-3R** | YES | NO |
| **MW-4R** | YES | NO |
| **MW-5R** | YES | NO |
| **MW-6R** | YES | NO |
| **MW-7R** | YES | NO |

***General Comments:***

Building Owner Dan Queri 315-430-5407

# *Site Management Plan Inspection Form*
## *Anthony Street*
## *Former MGP Site*
## *Watertown, New York*

Date: 9/20/2023 Time: 11:00

Technician: KL Weather: Sunny 64

| *General Site Wide Conditions* | | | | |
|---|---|---|---|---|
| Any signs of ground-intrusive activities? | YES | | NO | COMMENTS: Fence installed August 2023 |
| 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: |
| Any repairs, maintenace or corrective actions since the last inspection? | YES | | NO | COMMENTS: |
| Have the front lawns been mowed? | YES | | NO | COMMENTS: |
| Conditon of the asphalt pavement | GOOD | FAIR | POOR | COMMENTS: repairs made |
| Conditon of the front sidewalks? | GOOD | FAIR | POOR | COMMENTS: |
| Conditon of the building foundations? | GOOD | FAIR | POOR | COMMENTS: |
| Are the requirements of the SMP being met? | YES | | NO | COMMENTS: |
| Are there any needed changes? | YES | | NO | COMMENTS: |
| Are the site records complete and up to date? | YES | | NO | COMMENTS: |

| *Site Monitoring Wells* | | |
|---|---|---|
| ***Well ID.*** | ***Location Secure*** | |
| **MW-1** | YES | NO |
| **MW-2** | YES | NO |
| **MW-3** | YES | NO |
| **MW-3R** | YES | NO |
| **MW-4R** | YES | NO |
| **MW-5R** | YES | NO |
| **MW-6R** | YES | NO |
| **MW-7R** | YES | NO |

***General Comments:***

Building Owner Dan Queri 315-430-5407

Fence was installed in August 17-18,2023 with GES providing oversight.

# *Site Management Plan Inspection Form*
## *Anthony Street*
## *Former MGP Site*
## *Watertown, New York*

Date: 6/28/2023 Time: 7:30

Technician: KL Weather: Rain 64

| *General Site Wide Conditions* | | | | |
|---|---|---|---|---|
| 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: |
| Any repairs, maintenace or corrective actions since the last inspection? | YES | NO | | COMMENTS: |
| Have the front lawns been mowed? | YES | NO | | COMMENTS: |
| Conditon of the asphalt pavement | GOOD | FAIR | POOR | COMMENTS: |
| Conditon of the front sidewalks? | GOOD | FAIR | POOR | COMMENTS: |
| Conditon of the building foundations? | GOOD | FAIR | POOR | COMMENTS: |
| Are the requirements of the SMP being met? | YES | NO | | COMMENTS: |
| Are there any needed changes? | YES | NO | | COMMENTS: |
| Are the site records complete and up to date? | YES | NO | | COMMENTS: |

| *Site Monitoring Wells* | | |
|---|---|---|
| ***Well ID.*** | ***Location Secure*** | |
| **MW-1** | YES | NO |
| **MW-2** | YES | NO |
| **MW-3** | YES | NO |
| **MW-3R** | YES | NO |
| **MW-4R** | YES | NO |
| **MW-5R** | YES | NO |
| **MW-6R** | YES | NO |
| **MW-7R** | YES | NO |

***General Comments:***

Building Owner Dan Queri 315-430-5407

# *Site Management Plan Inspection Form*
## *Anthony Street*
## *Former MGP Site*
## *Watertown, New York*

Date: 3/9/2023 Time: 7:45

Technician: KL Weather: Cloudy 28

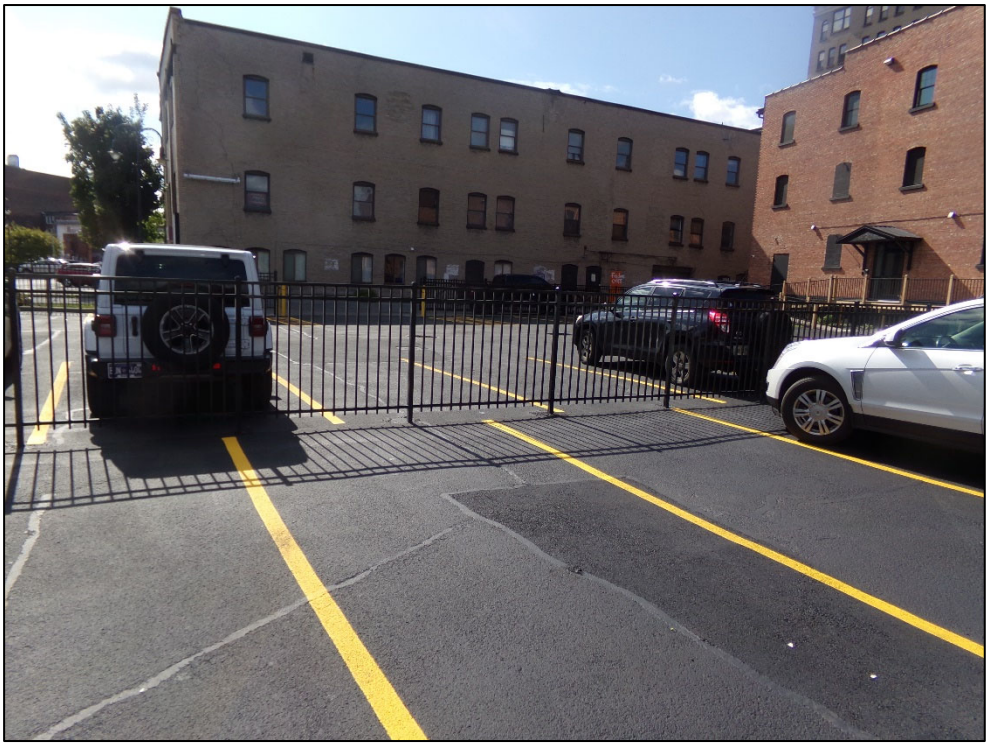
| *General Site Wide Conditions* | | | | |
|---|---|---|---|---|
| Any signs of ground-intrusive activities? | YES | NO | | COMMENTS: |
| Any soil disturbance regardless of quantity/extent? | YES | NO | | COMMENTS: |
| Any surface erosion? | YES | NO | | COMMENTS: |
| Any settlement? | YES | NO | | COMMENTS: |
| 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: |
| Any repairs, maintenace or corrective actions since the last inspection? | YES | NO | | COMMENTS: |
| Have the front lawns been mowed? | YES | NO | | COMMENTS: winter |
| Conditon of the asphalt pavement | GOOD | FAIR | POOR | COMMENTS: |
| Conditon of the front sidewalks? | GOOD | FAIR | POOR | COMMENTS: |
| Conditon of the building foundations? | GOOD | FAIR | POOR | COMMENTS: |
| Are the requirements of the SMP being met? | YES | NO | | COMMENTS: |
| Are there any needed changes? | YES | NO | | COMMENTS: |
| Are the site records complete and up to date? | YES | NO | | COMMENTS: |

| *Site Monitoring Wells* | | |
|---|---|---|
| ***Well ID.*** | ***Location Secure*** | |
| **MW-1** | YES | NO |
| **MW-2** | YES | NO |
| **MW-3** | YES | NO |
| **MW-3R** | YES | NO |
| **MW-4R** | YES | NO |
| **MW-5R** | YES | NO |
| **MW-6R** | YES | NO |
| **MW-7R** | YES | NO |

***General Comments:***

Site Conditions on March 9, 2023

Fence Installation on August 18, 2023



Site Conditions on September 20, 2023

Site Conditions on December 13, 2023

# Appendix B – Well Sampling Field Data

| Well ID | Sample? | Well Size | DTW | DTP | DTB | Comments |
|---|---|---|---|---|---|---|
| MW-1 | Yes | 2" | 7.90 | | 7.85 | NO SAMPLE |
| MW-2 | Yes | 2" | 5.82 | | 7.30 | Field Duplicate |
| MW-3 | Yes | 2" | 5.76 | DRY | 5.76 | NO SAMPLE historically dry |
| MW-3R | Yes | 2" | 22.80 | | 23.30 | |
| MW-4R | Yes | 2" | 22.34 | | 44.80 | MS/MSD |
| MW-5R | Yes | 2" | 22.20 | | 44.45 | ~~Field Duplicate~~ |
| MW-6R | Yes | 2" | 22.53 | | 45.00 | |
| MW-7R | Yes | 2" | 21.46 | | 45.05 | |

***DTW*** *-depth to water*

***DTP*** *-depth to product*

***DTB*** *-depth to bottom*

National Grid
Anthony Street, Watertown New York

Sampling Personnel:

Date: 6/28/23

Job Number: 0603324-136010-221

Weather: Cloudy

Well Id. **MW-1**

Time In: 1010 Time Out: 1030

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | 7.40 | |
| Depth to Bottom: | (feet) | 7.85 | |
| Depth to Product: | (feet) | — | |
| Length of Water Column: | (feet) | 0.45 | |
| Volume of Water in Well: | (gal) | 0.07 | |
| Three Well Volumes: | (gal) | 0.22 | |

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other:
Well Diameter: 1" [ ] 2" [X] Other:
Comments: Insufficient water in well, could not fill flow cell

## Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Purging Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Tubing/Bailer Material: | | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] | |
| Sampling Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Average Pumping Rate: | (ml/min) | — | | | |
| Duration of Pumping: | (min) | — | | | |
| Total Volume Removed: | (gal) | — | | | |

Did well go dry? Yes [X] No [ ]

Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
| 1015 | | | | | | | | |
| 1020 | | | | | | | | |
| 1025 | | | | | | | | |
| 1030 | | | | | | | | |
| 1035 | | | | | | | | |
| 1040 | | | | | | | | |
| 1045 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

## Sampling Information:

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

Sample ID: **MW-1-0623** Duplicate? Yes [ ] No [X]

Sample Time: 0945 MS/MSD? Yes [ ] No [X]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes:

Laboratory: Pace Analytical Greensburg, PA

National Grid
Anthony Street, Watertown New York

Sampling Personnel: KL
Date: 6/28/23
Job Number: 0603324-136010-221
Weather: Cloudy 64
Well Id. **MW-2**
Time In: 09:00 Time Out: 09:50

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | 5.82 | |
| Depth to Bottom: | (feet) | 7.30 | |
| Depth to Product: | (feet) | | |
| Length of Water Column: | (feet) | 1.48 | |
| Volume of Water in Well: | (gal) | 0.23 | |
| Three Well Volumes: | (gal) | 0.71 | |

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

## Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Purging Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Tubing/Bailer Material: | | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] | |
| Sampling Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Average Pumping Rate: | (ml/min) | 200 | | | |
| Duration of Pumping: | (min) | 30 | | | |
| Total Volume Removed: | (gal) | 7 | | | |

Did well go dry? Yes [ ] No [ ]

Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
| 9:10 | 5.88 | 19.65 | 8.80 | 191 | 0.531 | 38.0 | 9.59 | 0.335 |
| 9:15 | 6.20 | 19.66 | 8.45 | 207 | 0.496 | 41.3 | 9.13 | 0.322 |
| 9:20 | 6.28 | 18.98 | 7.93 | 234 | 0.494 | 45.2 | 8.60 | 0.322 |
| 9:25 | 6.28 | 18.10 | 7.70 | 240 | 0.494 | 38.8 | 8.22 | 0.321 |
| 9:30 | 6.28 | 17.31 | 7.55 | 247 | 0.501 | 7.6 | 7.85 | 0.320 |
| 9:35 | 6.28 | 17.01 | 7.50 | 248 | 0.503 | 3.9 | 7.50 | 0.322 |
| 9:40 | 6.28 | 16.75 | 7.48 | 250 | 0.505 | 7.3 | 7.12 | 0.323 |
| | | | | | | | | |
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## Sampling Information:

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

FD-0623

Sample ID: **MW-2-0623** Duplicate? Yes [X] No [ ]
Sample Time: 09:40 MS/MSD? Yes [ ] No [X]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes:

Laboratory: Pace Analytical
Greensburg, PA

National Grid
Anthony Street, Watertown New York

Sampling Personnel: Peter Egan
Job Number: 0603324-136010-221
Well Id. **MW-3**

Date: 6/28/23
Weather: 60° overcast
Time In: 1000 Time Out: 10:15

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | ~~22. Dry~~ | |
| Depth to Bottom: | (feet) | 5.76 | |
| Depth to Product: | (feet) | | |
| Length of Water Column: | (feet) | | |
| Volume of Water in Well: | (gal) | | |
| Three Well Volumes: | (gal) | | |

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

## Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Purging Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Tubing/Bailer Material: | | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] | |
| Sampling Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Average Pumping Rate: | (ml/min) | | | | |
| Duration of Pumping: | (min) | | | | |
| Total Volume Removed: | (gal) | | | | |

Did well go dry? Yes [X] No [ ]

Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
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## Sampling Information:

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

Sample ID: **MW-3-0623** Duplicate? Yes [ ] No [X]
Sample Time: No Sample MS/MSD? Yes [ ] No [X]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes: Well is Dry

Laboratory: Pace Analytical Greensburg, PA

National Grid
Anthony Street, Watertown New York

Sampling Personnel: Pete Lyon
Date: 6/28/23
Job Number: 0603324-136010-221
Weather: overcast 60°
Well Id. **MW-3R**
Time In: 0930 Time Out: 1035

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | 22.80 | |
| Depth to Bottom: | (feet) | 23.30 | |
| Depth to Product: | (feet) | — | |
| Length of Water Column: | (feet) | 0.5 | |
| Volume of Water in Well: | (gal) | .08 | |
| Three Well Volumes: | (gal) | 0.24 | |

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

## Purging Information

| | | | | |
|---|---|---|---|---|
| Purging Method: | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Tubing/Bailer Material: | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] | |
| Sampling Method: | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |

| | | |
|---|---|---|
| Average Pumping Rate: | (ml/min) | 200 |
| Duration of Pumping: | (min) | 30 |
| Total Volume Removed: | (gal) | 2 |

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
| 1000 | 22.80 | 17.26 | 7.75 | 79 | 2.45 | 373 | 7.58 | 1.57 |
| 1005 | 22.80 | 16.46 | 7.57 | 104 | 2.42 | 426 | 7.10 | 1.55 |
| 1010 | 22.80 | 15.87 | 7.68 | 118 | 2.37 | 38.2 | 6.59 | 1.51 |
| 1015 | 22.80 | 15.69 | 7.71 | 126 | 2.34 | 45.3 | 6.40 | 1.50 |
| 1020 | 22.80 | 15.62 | 7.73 | 132 | 2.32 | 7.3 | 6.48 | 1.49 |
| 1025 | 22.80 | 15.61 | 7.76 | 135 | 2.31 | 5.3 | 6.40 | 1.48 |
| 1030 | 22.80 | 15.60 | 7.78 | 138 | 2.31 | 5.9 | 6.58 | 1.48 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

## Sampling Information:

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

Sample ID: **MW-3R-0623** Duplicate? Yes [ ] No [X]
Sample Time: 1030 MS/MSD? Yes [ ] No [X]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes:

Laboratory: Pace Analytical Greensburg, PA

National Grid
Anthony Street, Watertown New York

Sampling Personnel: G. Ernst
Date: 6/28/23
Job Number: 0603324-136010-221
Weather: Cloudy 60's
Well Id. **MW-4R**
Time In: 0900 Time Out: 1010

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | 22.34 | |
| Depth to Bottom: | (feet) | 44.80 | |
| Depth to Product: | (feet) | — | |
| Length of Water Column: | (feet) | 22.46 | |
| Volume of Water in Well: | (gal) | 3.59 | |
| Three Well Volumes: | (gal) | 10.8 | |

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

## Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Purging Method: | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] |
| Tubing/Bailer Material: | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] |
| Sampling Method: | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] |

| | | |
|---|---|---|
| Average Pumping Rate: | (ml/min) | 200 |
| Duration of Pumping: | (min) | 30 |
| Total Volume Removed: | (gal) | 2 |

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
| 0915 | 22.79 | 18.15 | 8.50 | -105 | 2.44 | 1.8 | 2.47 | 1.58 |
| 0920 | 23.59 | 17.16 | 7.87 | -126 | 2.58 | 2.7 | 1.89 | 1.65 |
| 0925 | 24.17 | 18.61 | 7.74 | -133 | 2.51 | 7.7 | 2.48 | 1.60 |
| 0930 | 24.67 | 18.41 | 7.70 | -137 | 2.49 | 9.3 | 2.28 | 1.60 |
| 0935 | 25.43 | 18.18 | 7.55 | -125 | 2.22 | 7.6 | 1.63 | 1.42 |
| 0940 | 25.93 | 18.08 | 7.39 | -112 | 1.96 | 4.5 | 0.88 | 1.25 |
| 0945 | 26.38 | 17.97 | 7.30 | -102 | 1.75 | 2.4 | 1.31 | 1.12 |
| | | | | | | | | |
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## Sampling Information:

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

6 - 100ml ambers Yes [X] No [ ]
9 - 40 ml vials Yes [X] No [ ]
3 - 250 ml plastic Yes [X] No [ ]

**MW-4R-MS-0623** **MW-4R-MSD-0623**

Sample ID: **MW-4R-0623** Duplicate? Yes [ ] No [X]
Sample Time: 0950 MS/MSD? Yes [X] No [ ]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes:

Laboratory: Pace Analytical
Greensburg, PA

National Grid
Anthony Street, Watertown New York

Sampling Personnel: VL
Job Number: 0603324-136010-221
Well Id. **MW-5R**

Date: 6/29/23
Weather: Cloudy 64
Time In: 09:50 Time Out: 10:45

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | 22.20 | |
| Depth to Bottom: | (feet) | 44.45 | |
| Depth to Product: | (feet) | — | |
| Length of Water Column: | (feet) | 22.25 | |
| Volume of Water in Well: | (gal) | 3.56 | |
| Three Well Volumes: | (gal) | 10.68 | |

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

## Purging Information

| | | | | |
|---|---|---|---|---|
| Purging Method: | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Tubing/Bailer Material: | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] | |
| Sampling Method: | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Average Pumping Rate: (ml/min) | 200 | | | |
| Duration of Pumping: (min) | 30 | | | |
| Total Volume Removed: (gal) | 2 | | | |

Did well go dry? Yes [ ] No [X]
Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
| 10:05 | 22.43 | 16.84 | 7.28 | 20 | 0.846 | 32.3 | 3.01 | 0.547 |
| 10:10 | 22.58 | 16.57 | 7.27 | -81 | 0.899 | 18.7 | 2.49 | 0.578 |
| 10:15 | 22.65 | 15.33 | 7.19 | -117 | 1.12 | 6.0 | 2.45 | 0.717 |
| 10:20 | 22.75 | 15.20 | 7.15 | -156 | 1.46 | 2.5 | 2.46 | 0.943 |
| 10:25 | 22.86 | 15.09 | 7.16 | -184 | 1.68 | 2.8 | 2.46 | 1.08 |
| 10:30 | 22.94 | 14.94 | 7.18 | -218 | 1.95 | 2.2 | 2.46 | 1.25 |
| 10:35 | 23.03 | 14.77 | 7.21 | -253 | 2.11 | 3.0 | 2.42 | 1.36 |
| | | | | | | | | |
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## Sampling Information:

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

4 - 100 ml ambers Yes [X] No [ ]
6 - 40 ml vials Yes [X] No [ ]
2 - 250 ml plastic Yes [X] No [ ]

~~Field Duplicate 0623~~
Sample ID: **MW-5R-0623** Duplicate? ~~Yes [X] No [X]~~
Sample Time: 10:35 MS/MSD? Yes [ ] No [X]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes:

Laboratory: Pace Analytical
Greensburg, PA

National Grid
Anthony Street, Watertown New York

Sampling Personnel: Peter Lyon
Date: 6/28/23
Job Number: 0603324-136010-221
Weather: 60° Overcast
Well Id. **MW-6R**
Time In: 1040 Time Out: 1120

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | 22.53 | |
| Depth to Bottom: | (feet) | 45.00 | |
| Depth to Product: | (feet) | - | |
| Length of Water Column: | (feet) | 22.47 | |
| Volume of Water in Well: | (gal) | 3.59 | |
| Three Well Volumes: | (gal) | 10.77 | |

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

## Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Purging Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Tubing/Bailer Material: | | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] | |
| Sampling Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Average Pumping Rate: | (ml/min) | 200 | | | |
| Duration of Pumping: | (min) | 30 | | | |
| Total Volume Removed: | (gal) | 2 | | | |

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
| 1045 | 22.53 | 15.44 | 7.45 | -18 | 4.06 | 137 | 3.24 | 2.65 |
| 1050 | 22.53 | 15.13 | 7.54 | -59 | 4.42 | 20.1 | 1.66 | 2.83 |
| 1055 | 22.53 | 14.96 | 7.55 | 0 | 4.42 | 13.2 | 1.41 | 2.83 |
| 1100 | 22.53 | 14.93 | 7.56 | 14 | 4.41 | 11.5 | 1.39 | 2.82 |
| 1105 | 22.53 | 14.88 | 7.57 | 34 | 4.40 | 10.1 | 1.39 | 2.82 |
| 1110 | 22.53 | 14.86 | 7.58 | 46 | 4.39 | 9.4 | 1.33 | 2.81 |
| 1115 | 22.53 | 14.74 | 7.58 | 49 | 4.40 | 9.3 | 1.29 | 2.82 |
| | | | | | | | | |
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| | | | | | | | | |

## Sampling Information:

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

Sample ID: **MW-6R-0623** Duplicate? Yes [ ] No [X]
Sample Time: 1115 MS/MSD? Yes [ ] No [X]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes:

Laboratory: Pace Analytical Greensburg, PA

National Grid
Anthony Street, Watertown New York

Sampling Personnel: G. Ernst
Date: 6/28/23
Job Number: 0603324-136010-221
Weather: cloudy 60°s
Well Id. **MW-7R**
Time In: 1030 Time Out: 1115

## Well Information

| | | TOC | Other |
|---|---|---|---|
| Depth to Water: | (feet) | 21.46 | |
| Depth to Bottom: | (feet) | 45.05 | |
| Depth to Product: | (feet) | — | |
| Length of Water Column: | (feet) | 23.59 | |
| Volume of Water in Well: | (gal) | 3.77 | |
| Three Well Volumes: | (gal) | 11.32 | |

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

## Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Purging Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Tubing/Bailer Material: | | Teflon [ ] | Stainless St. [ ] | Polyethylene [X] | |
| Sampling Method: | | Bailer [ ] | Peristaltic [X] | Grundfos Pump [ ] | |
| Average Pumping Rate: | (ml/min) | 200 | | | |
| Duration of Pumping: | (min) | 30 | | | |
| Total Volume Removed: | (gal) | 2 | | | |

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] 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) |
|---|---|---|---|---|---|---|---|---|
| 1035 | 21.49 | 18.44 | 7.42 | 96 | 3.69 | 98.6 | 4.32 | 2.36 |
| 1040 | 21.49 | 17.94 | 7.56 | 133 | 3.79 | 50.7 | 3.61 | 2.43 |
| 1045 | 21.49 | 17.72 | 7.58 | 145 | 3.81 | 58.4 | 3.56 | 2.44 |
| 1050 | 21.49 | 17.38 | 7.60 | 171 | 3.82 | 56.0 | 3.55 | 2.44 |
| 1055 | 21.49 | 17.17 | 7.60 | 193 | 3.83 | 43.7 | 3.55 | 2.45 |
| 1100 | 21.49 | 17.15 | 7.60 | 202 | 3.82 | 32.6 | 3.61 | 2.45 |
| 1105 | 21.49 | 17.06 | 7.60 | 210 | 3.79 | 33.4 | 3.72 | 2.42 |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

## Sampling Information:

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

Sample ID: **MW-7R-0623** Duplicate? Yes [ ] No [X]
Sample Time: 1110 MS/MSD? Yes [ ] No [X]

Shipped: Pace Courier Pickup [X]
Drop-off Albany Service Center [ ]

Comments/Notes:

Laboratory: Pace Analytical Greensburg, PA

Pace Analytical
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

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



**Section A** Required Client Information:

| | |
|---|---|
| Company: GES - Syracuse | |
| Address: 6780 Northern Blvd, Suite 100 | |
| East Syracuse, New York 13057 | |
| Email To: dshay@gesonline.com | |
| Phone: 800.220.3069 x4051 | Fax: None |
| Requested Due Date/TAT: Standard | |

**Section B** Required Project Information:

| | |
|---|---|
| Report To: Devin Shay (GES) dshay@gesonline.com | |
| Report To: Tim Beaumont (GES) tbeaumont@gesonline.com | |
| | |
| Purchase Order No.: | |
| Project Name: National Grid - Watertown Anthony St, Watertown NY | |
| Project Number: 0603324-136010-221-1106 | |

**Section C** Invoice Information:

| | |
|---|---|
| Attention: Accounts Payable via email at ges-invoices@gesonline.com | |
| Company Name: Groundwater & Environmental Services, Inc. | |
| Address: 6780 Northern Blvd, Suite 100, East Syracuse, NY 13057 | |
| Pace Quote Reference: | |
| Pace Project Manager: Rachel Christner | |
| Pace Profile #: Annual GWS | |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ STATE ☐ ☐ ☐ ☐ ☐ OTHER

Filtered (Y/N)

Requested Analysis:

**Section D** Required Client Information

**SAMPLE ID**
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

| ITEM # | Section D SAMPLE ID | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED GRAB DATE | COLLECTED GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analysis: BTEX (8260C) | SVOCs (PAH) (8270D) | Cyanide, Total (9012B) | Pace Project Number / Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ~~MW-1-0623~~ | WT | G | | | 6/28/23 | | | 6 | 3 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 2 | MW-2-0623 | WT | G | | | | 5:32 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 3 | ~~MW-3-0623~~ | WT | G | | | | ~~10:20~~ | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 4 | MW-3R-0623 | WT | G | | | | 10:30 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 5 | MW-4R-0623 | WT | G | | | | 09:50 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 6 | MW-4R-MS-0623 | WT | G | | | | 09:50 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 7 | MW-4R-MSD-0623 | WT | G | | | | 09:50 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 8 | MW-5R-0623 | WT | G | | | | 10:35 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 9 | MW-6R-0623 | WT | G | | | | 11:15 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 10 | MW-7R-0623 | WT | G | | | | 11:10 | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 11 | FD-0623 | WT | G | | | | — | | 6 | 2 | | | 3 | 1 | | | | 3 | 2 | 1 | |
| 15 | Trip Blanks | WT | G | | | | 11:20 | | 2 | | | | 3 | | | | | 3 | | | |
| 16 | | WT | G | | | | | | | | | | | | | | | | | | |
| 17 | | WT | G | | | | | | | | | | | | | | | | | | |

**Additional Comments:**

SAMPLES WILL ARRIVE IN # 1 COOLERS.

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

**SPECIFIC EDD NAME:**

NGWatertown-labnumber.28351.EQEDD.zip

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|
| | 6/28/23 | 11:30 | Pace Drop Box | | |
| | | | | | |
| | | | | | |
| | | | | | |

**SAMPLE CONDITIONS**

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| | Y/N | Y/N | Y/N |
| | Y/N | Y/N | Y/N |
| | Y/N | Y/N | Y/N |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: KEVIN LEO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/28/23

\\svrrmt88-vm3\syracuse-01\Dashboard\Planning\949183.xlsm

# Appendix C – Data Usability Summary Report

Groundwater
& Environmental Services, Inc.

701 N Main St. Suite 201 • Blacksburg, Virginia 24060 • (866) 756 0788

February 29, 2024

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

RE: Data Usability Summary Report for National Grid: Watertown, NY Site Data Package
Pace Analytical Job No. 30600526

Groundwater & Environmental Services, Inc. (GES) reviewed one data package (Laboratory Project Number 30600526) from Pace Analytical Services, LLC in Greensburg, PA., for the analysis of groundwater samples collected on June 28, 2023 from monitoring wells located at the National Grid: Watertown, NY Site. Seven aqueous samples and a field duplicate were analyzed for volatile organic compounds (VOCs), polyaromatic hydrocarbons (PAHs), and cyanide. Methodologies utilized were those of the USEPA SW846 methods 8260C/8270D and SM 4500CN-E-2-11, with additional QC requirements of the NYSDEC ASP.

The data were reported as part of a complete full deliverable type B data validation. This usability report is generated from review of the following:

- 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

The items listed above which show deficiencies were discussed within the text of this narrative.

All of the other items were determined to be acceptable for the DUSR level review.

In addition, method and QC criteria specified in the NYSDEC ASP were implemented. All data are considered valid and acceptable except those analytes that have been qualified as unusable "R" (unreliable).

**Table 1. Validation Qualifiers**

| Sample ID | Qualifier | Analyte | Reason for qualification |
|---|---|---|---|
| MW-4R | R | Cyanide | MS Recovery << 10% |
| MW-2<br>MW-3R<br>MW-4R<br>MW-7R<br>FD | U at 0.11 ug/L<br>U at 0.15 ug/L<br>U at 0.15 ug/L<br>U at 0.24 ug/L<br>U at 0.12 ug/L | Naphthalene | Method blank detection |
| MW-3R | J | Benzo(b)fluoranthene<br>Benzo(k)fluoranthene | |
| MW-6R | J- (detected)<br>UJ (non-detected) | All SVOCS | |

In summary, sample results were usable as reported, with qualifications and exceptions listed in Table 1.

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

**BTEX Volatiles by EPA 8260C/NYSDEC ASP**

Sample holding times were met and instrumental tune fragmentations were within acceptance ranges.

There were no positive detections in the blanks.

Surrogate and internal standard recoveries were within required limits with the following exceptions:

- MW-6R-0623 (Lab ID: 30600526007)
  - 1,2-Dichloroethane-d4 (S) recovered high

No analytes reported positive detections. The possible high bias does not affect non-detect data.

Calibration standards show acceptable responses within analytical protocol and validation action limits.

MS/MSD recoveries and associated RPDs were within criteria.

The blind field duplicate correlations for MW-2R were not calculated, as there were no positive detections in either sample.

**PAHs by EPA8270D/NYSDEC ASP**

Holding times were met.

Instrument resolution was insufficient to separate benzo(b)fluoranthene and benzo(k)fluoranthene. The analytes were reported as an isomeric pair. Where the data is positively reported, it is considered estimated.

Surrogate recovery was below laboratory control limits for the following samples:

- FD-0623 (Lab ID: 30600526009)
  - 2-Fluorobiphenyl (S)
- MW-6R-0623 (Lab ID: 30600526007)
  - 2-Fluorobiphenyl (S)

Results may be biased low.

Instrumental tune fragmentations were within acceptance ranges. Surrogate recoveries were within analytical and validation criteria.

Blanks show no contamination with the following exception:

- Naphthalene was reported in the method blank at 0.11 µg/L.

Compounds that reported naphthalene at less than 5 times the blank are qualified as estimated with a possible high bias.

Calibration standards show acceptable responses within analytical protocol and validation action limits.

LCS recoveries and RPDs were reported within acceptable ranges, with the exception of a high recovery of naphthalene, likely due to the same source as the method blank contamination. All naphthalene detections are qualified as estimated with a possible high bias.

MS/MSD recoveries and RPDs were reported within acceptable ranges.

The blind field duplicate correlations for MW-2R were not calculated, as there were no positive detections in either sample.

**Total Cyanide by 9012B/ NYSDEC ASP**

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples, with the flowing exceptions:

- Extremely low recovery of cyanide in the MS and MSD prepared from the sample MW-4R. Low recoveries significantly below initial concentration indicate a complete failure of the analysis. Cyanide is qualified as unusable (R) in MW-4R.

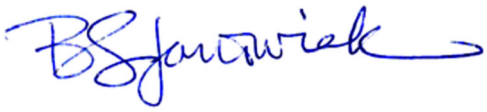
Calibration standard responses were compliant. Blanks show no detections above the reporting limits. The laboratory spikes and duplicates of total cyanide show acceptable recoveries and/or correlations.

The blind field duplicate correlations associated with MW-2R fall below the EPA recommended 30% for aqueous duplicate samples.

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.



Bonnie Janowiak, Ph.D.
Principal Environmental Chemist, NRCC Certified
701 N Main St
Blacksburg, VA 24060

## VALIDATION DATA QUALIFIER DEFINITIONS

**U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.

**J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

**J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.

**J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.

**UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

**NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

**R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.

# Sample Summaries

# and

# Laboratory Case Narratives

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## SAMPLE SUMMARY

Project: National Grid - Watertown
Pace Project No.: 30600526

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **30600526001** | **MW-2-0623** | Water | 06/28/23 09:40 | 06/29/23 09:20 |
| **30600526002** | **MW-3R-0623** | Water | 06/28/23 10:30 | 06/29/23 09:20 |
| **30600526003** | **MW-4R-0623** | Water | 06/28/23 09:50 | 06/29/23 09:20 |
| **30600526004** | **MW-4R-MS-0623** | Water | 06/28/23 09:50 | 06/29/23 09:20 |
| **30600526005** | **MW-4R-MSD-0623** | Water | 06/28/23 09:50 | 06/29/23 09:20 |
| **30600526006** | **MW-5R-0623** | Water | 06/28/23 10:35 | 06/29/23 09:20 |
| **30600526007** | **MW-6R-0623** | Water | 06/28/23 11:15 | 06/29/23 09:20 |
| **30600526008** | **MW-7R-0623** | Water | 06/28/23 11:10 | 06/29/23 09:20 |
| **30600526009** | **FD-0623** | Water | 06/28/23 00:00 | 06/29/23 09:20 |
| **30600526010** | **Trip Blank** | Water | 06/28/23 11:20 | 06/29/23 09:20 |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## SAMPLE ANALYTE COUNT

Project: National Grid - Watertown
Pace Project No.: 30600526

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **30600526001** | **MW-2-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526002** | **MW-3R-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526003** | **MW-4R-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526004** | **MW-4R-MS-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526005** | **MW-4R-MSD-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526006** | **MW-5R-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526007** | **MW-6R-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526008** | **MW-7R-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526009** | **FD-0623** | EPA 8270D by SIM | DSC | 18 | PASI-PA |
| | | EPA 8260C | AJC | 8 | PASI-PA |
| | | SM 4500CN-E-2011 | CMT | 1 | PASI-PA |
| **30600526010** | **Trip Blank** | EPA 8260C | AJC | 8 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

**Pace Analytical Services, LLC**
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# PROJECT NARRATIVE

Project: National Grid - Watertown
Pace Project No.: 30600526

**Method:** **EPA 8270D by SIM**
**Description:** 8270D PAH SIM Reduced Volume
**Client:** Groundwater & Environmental Services, Inc. (Syracuse)
**Date:** July 11, 2023

**General Information:**
9 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.

QC Batch: 599005

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

- FD-0623 (Lab ID: 30600526009)
  - 2-Fluorobiphenyl (S)
- MW-6R-0623 (Lab ID: 30600526007)
  - 2-Fluorobiphenyl (S)

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

QC Batch: 599005

B: Analyte was detected in the associated method blank.

- BLANK for HBN 599005 [OEXT/502 (Lab ID: 2911518)
  - 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.

**Pace Analytical Services, LLC**
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# PROJECT NARRATIVE

Project: National Grid - Watertown
Pace Project No.: 30600526

**Method:** **EPA 8270D by SIM**
**Description:** 8270D PAH SIM Reduced Volume
**Client:** Groundwater & Environmental Services, Inc. (Syracuse)
**Date:** July 11, 2023

**Additional Comments:**

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# PROJECT NARRATIVE

Project: National Grid - Watertown
Pace Project No.: 30600526

**Method:** **EPA 8260C**
**Description:** 8260C MSV
**Client:** Groundwater & Environmental Services, Inc. (Syracuse)
**Date:** July 11, 2023

**General Information:**
10 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.

QC Batch: 599939

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- MW-6R-0623 (Lab ID: 30600526007)
  - 1,2-Dichloroethane-d4 (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- MW-6R-0623 (Lab ID: 30600526007)
  - 1,2-Dichloroethane-d4 (S)

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

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

**Additional Comments:**

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# PROJECT NARRATIVE

Project: National Grid - Watertown
Pace Project No.: 30600526

**Method:** **SM 4500CN-E-2011**
**Description:** 4500-CN-E Cyanide, Total
**Client:** Groundwater & Environmental Services, Inc. (Syracuse)
**Date:** July 11, 2023

**General Information:**
9 samples were analyzed for SM 4500CN-E-2011 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 SM 4500-CN-C-2011 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: 599013

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30600526003,30601006004

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

- MS (Lab ID: 2911558)
  - Cyanide
- MS (Lab ID: 2912054)
  - Cyanide
- MSD (Lab ID: 2911559)
  - Cyanide
- MSD (Lab ID: 2912055)
  - Cyanide

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 599013

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 2911576)
  - Cyanide

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS