

February 9, 2023

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

Anthony Street, Watertown, New York Annual Groundwater Monitoring Report

Dear Mr. Deyette:

Enclosed for your review is the 2022 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 2022 (March, June, September and December). The site is generally in good shape and in compliance. There were detections of BTEX and/or PAH in all five 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

February 2023

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:

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Date:

February 9, 2023

Devin T. Shay, PG

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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 2022 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 8, 2022 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 422.15 feet above sea level (asl; well MW-7R) to 439.30 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 five (5) monitoring wells on June 8, 2022 (including MW-2, 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 all the monitoring wells sampled. BTEX, acenaphthene, and naphthalene were detected above the regulatory criteria in one or more samples. Cyanide was detected in monitoring wells MW-2, MW-4R, MW-5R, MW-6R, and MW-7R. As shown on **Table 2**, in general, BTEX, PAHs, and total cyanide detected in groundwater during the June 2022 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 29, June 8, September 29, and December 15, 2022. The Site Inspection Forms are presented in **Appendix A**. In general, the Site is in compliance.

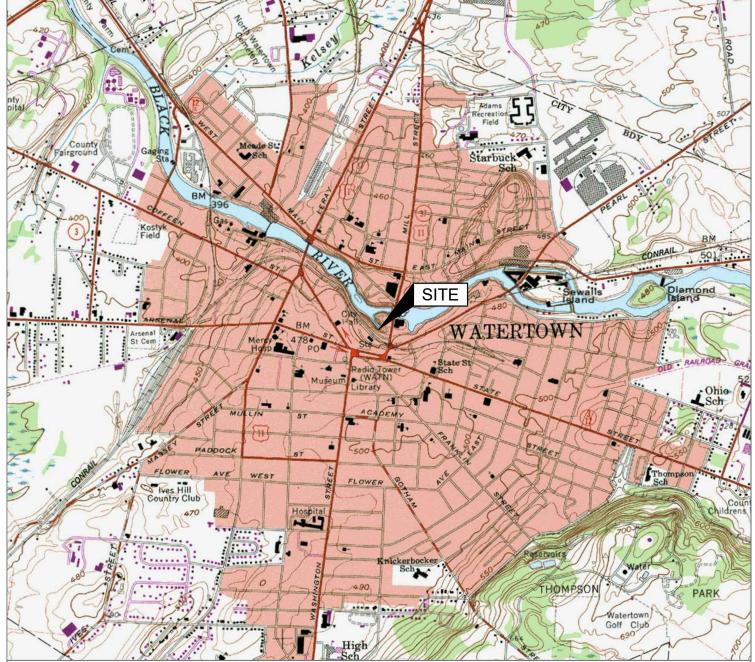


4 Recommendations

At this time, National Grid recommends continuing the annual monitoring activities. The next annual groundwater sampling event would be in the Summer 2023. Annual site-wide inspections are required; however, for internal security purposes, National Grid will continue to conduct quarterly site-wide inspections.



Figures

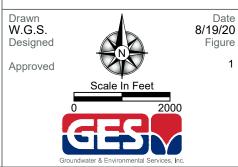


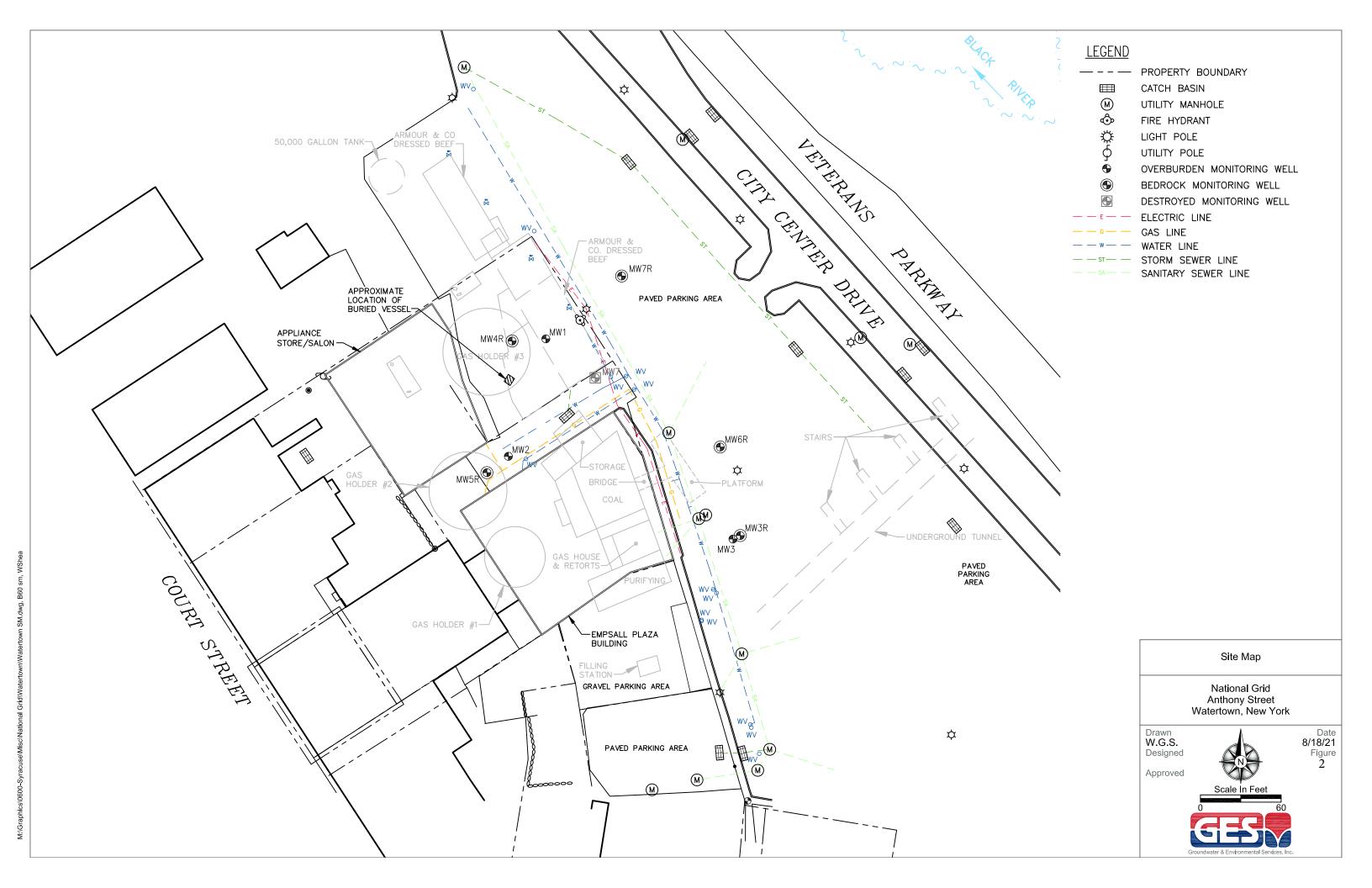
Source: USGS 7.5 Minute Series Topographic Quadrangle, 1982 Watertown, New York Contour Interval = 10'

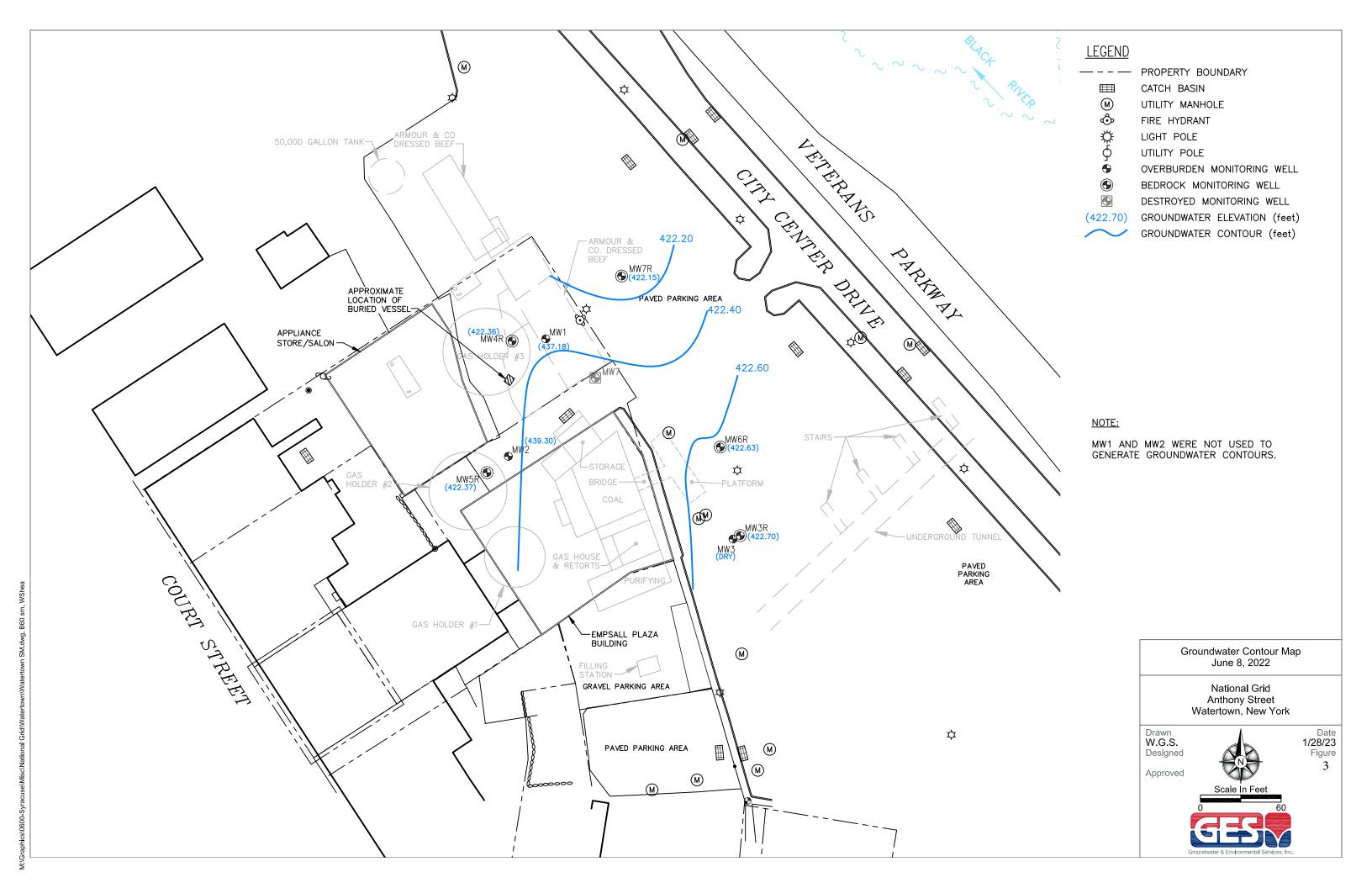


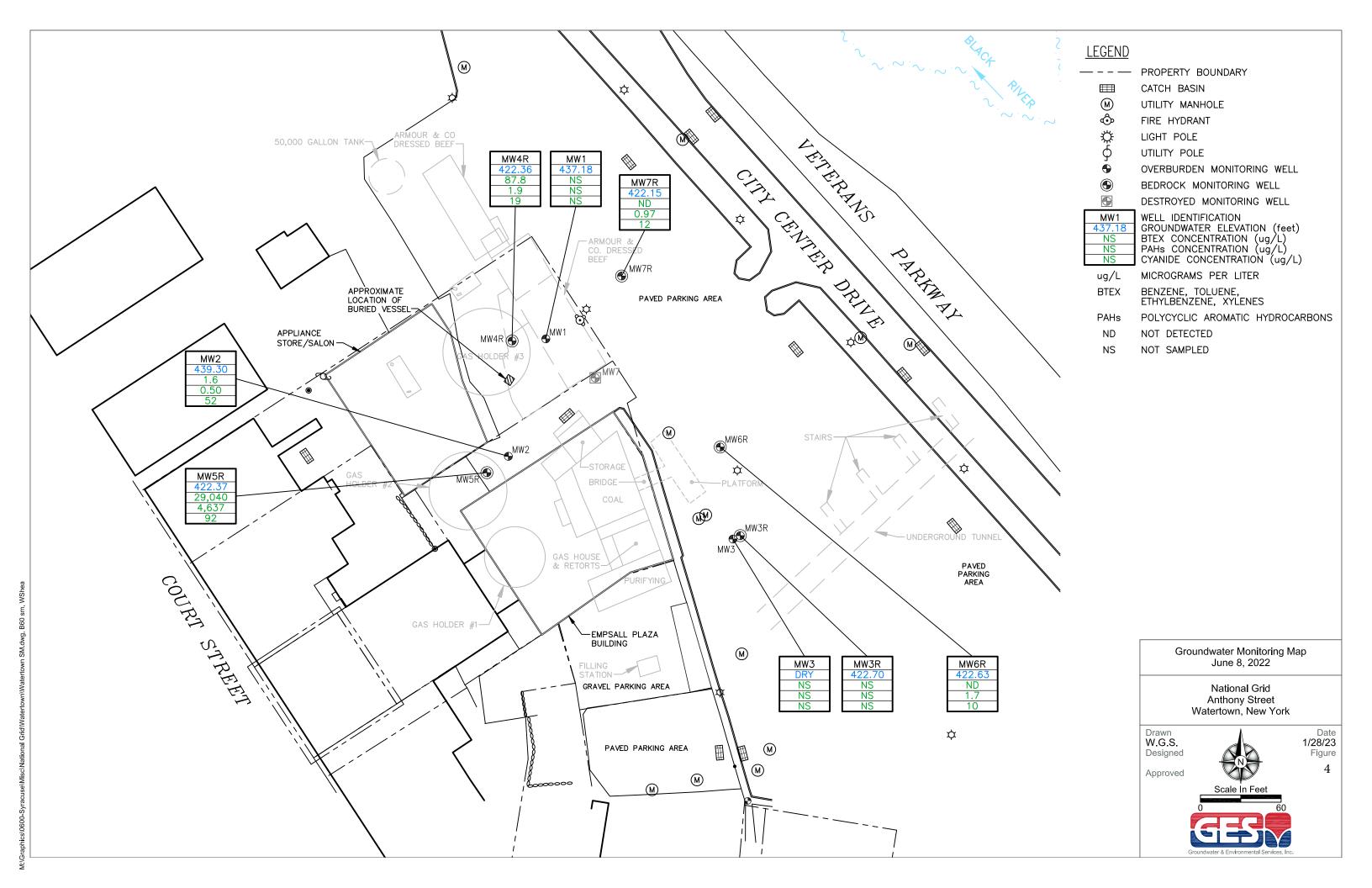
Site Location Map

National Grid Anthony Street Watertown, New York









Annual Groundwater Monitoring Report National Grid Watertown (Anthony Street) Former MGP Site Anthony St. Watertown, New York



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)
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
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
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	-
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
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
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
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
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



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
ВТЕХ			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:

J

Results are presented in units of micrograms per liter ($\mu g/L$).

Ε = Results exceeded calibration range

= Compound quantitated using a secondary dilution D

= Analyte was detected at a concentration less than the laboratory reporting limit ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.

= values indicate exceedance of the NYSDEC AWQS Bolded



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
BTEX			4.0 J	5.5 J	4.2	2.8	1.4	3.2	1.1	1.6
Benzene	1	μg/L	4.0 J	4.3	2.4	2.8	1.4	3.2	1.1	1.6
Ethylbenzene	5	μg/L	ND	0.90 J	ND	ND	ND	ND	ND	ND
Toluene	5	μg/L	ND	ND	1.8	ND	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND	0.30 J	ND	ND	ND	ND	ND	ND
SVOCs			ND	4.3 J	2.4 J	ND	ND	1.3	1.1	0.50
Acenaphthene	20	μg/L	ND							
Acenaphthylene		μg/L	ND							
Anthracene	50	μg/L	ND							
Benzo(a)anthracene	0.002	μg/L	ND							
Benzo(a)pyrene	ND	μg/L	ND							
Benzo(b)fluoranthene	0.002	μg/L	ND							
Benzo(g,h,i)perylene		μg/L	ND							
Benzo(k)fluoranthene	0.002	μg/L	ND							
Chrysene	0.002	μg/L	ND							
Dibenz(a,h)anthracene		μg/L	ND							
Fluoranthene	50	μg/L	ND							
Fluorene	50	μg/L	ND							
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND							
Naphthalene	10	μg/L	ND	4.3 J	2.4 J	ND	ND	1.3	1.1	0.50
Phenanthrene	50	μg/L	ND							
Pyrene	50	μg/L	ND							
Inorganics										
Cyanide, Total	200	μg/L	98	90	127 J	61	50	70	43	52

Notes:

Results are presented in units of micrograms per liter ($\mu g/L$).

Ε = Results exceeded calibration range

= Compound quantitated using a secondary dilution D

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

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



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
втех			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	ND	ND	1.1
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	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	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	ND	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	1.1
Phenanthrene	50	μg/L	ND	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND	ND
Inorganics							
Cyanide, Total	200	μg/L	2.5 J	ND	5.2 J	5.5 J	ND

Notes:

Results are presented in units of micrograms per liter ($\mu g/L$).

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.



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
втех			2,239	769	23.8	7.2 J	2.1	57.0	87.8
Benzene	1	μg/L	1,200	670 D	22	7.2 J	2.1	55.5	79.8
Ethylbenzene	5	μg/L	510	51	1.8	ND	ND	1.5	4.5
Toluene	5	μg/L	49	6.6	ND	ND	ND	ND	ND
Total Xylenes	5	μg/L	480	41	ND	ND	ND	ND	3.5
SVOCs			443 J	16.89 J	ND	ND	1.14	2.3	1.9
Acenaphthene	20	μg/L	4.3 J	ND	ND	ND	ND	ND	ND
Acenaphthylene		μg/L	ND						
Anthracene	50	μg/L	ND						
Benzo(a)anthracene	0.002	μg/L	ND						
Benzo(a)pyrene	ND	μg/L	ND						
Benzo(b)fluoranthene	0.002	μg/L	ND						
Benzo(g,h,i)perylene		μg/L	ND						
Benzo(k)fluoranthene	0.002	μg/L	ND						
Chrysene	0.002	μg/L	ND						
Dibenz(a,h)anthracene		μg/L	ND						
Fluoranthene	50	μg/L	ND						
Fluorene	50	μg/L	1.3 J	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND						
Naphthalene	10	μg/L	430	16	ND	ND	1.0	2.3	1.8
Phenanthrene	50	μg/L	6.9 J	0.89 J	ND	ND	0.14	ND	0.12
Pyrene	50	μg/L	ND						
Inorganics									
Cyanide, Total	200	μg/L	ND	ND	11	13	19	12	19

Notes:

Results are presented in units of micrograms per liter ($\mu g/L$).

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.



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
втех			20,300	12,800	27,100	8,340	29,290	17,900	29,040
Benzene	1	μg/L	3,800	4,200 D	6,600 D	3900	4,370	3,350	7,760
Ethylbenzene	5	μg/L	2,000	2,100 D	3,500 D	740	4,350	3,250	4,460
Toluene	5	μg/L	9,700	3,600 D	11,000 D	2600	13,200	6,720	10,400
Total Xylenes	5	μg/L	4,800	2,900 D	6,000 D	1100	7,370	4,580	6,420
SVOCs			1,927 J	2,461 J	3,598 J	2,231 J	7.647	3,158	4.637
Acenaphthene	20	μg/L	70 J	74	74 J	62 DJ	78.1	82.2	102
Acenaphthylene		μg/L	69 J	26	56 J	17 J	46.3	27.1	ND
Anthracene	50	μg/L	11 J	4.7	5.5 J	ND	4.4	3.8	4.2
Benzo(a)anthracene	0.002	μg/L	ND						
Benzo(a)pyrene	ND	μg/L	ND						
Benzo(b)fluoranthene	0.002	μg/L	ND						
Benzo(g,h,i)perylene		μg/L	ND						
Benzo(k)fluoranthene	0.002	μg/L	ND						
Chrysene	0.002	μg/L	ND						
Dibenz(a,h)anthracene		μg/L	ND						
Fluoranthene	50	μg/L	ND	1.0 J	ND	0.66 J	0.92	0.85	0.71
Fluorene	50	μg/L	41 J	29	32 J	21 J	29.1	27.8	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND						
Naphthalene	10	μg/L	1,700	2,300 D	3,400 D	2,200 D	7,460	2,990	4,530
Phenanthrene	50	μg/L	36 J	26	30 J	20 J	27.8	25.2	ND
Pyrene	50	μg/L	ND	0.71 J	ND	0.56 J	0.74	0.70	0.55
Inorganics									
Cyanide, Total	200	μg/L	98	ND	180	89	86	96	92

Notes:

Results are presented in units of micrograms per liter ($\mu g/L$).

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.



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
ВТЕХ			ND	ND	0.52 J	ND	ND	ND	ND
Benzene	1	μg/L	ND						
Ethylbenzene	5	μg/L	ND						
Toluene	5	μg/L	ND	ND	0.52 J	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND						
SVOCs			ND	ND	ND	ND	8.58	3.4	1.7
Acenaphthene	20	μg/L	ND	ND	ND	ND	0.20	ND	ND
Acenaphthylene		μg/L	ND	ND	ND	ND	0.12	ND	ND
Anthracene	50	μg/L	ND	ND	ND	ND	0.28	ND	ND
Benzo(a)anthracene	0.002	μg/L	ND						
Benzo(a)pyrene	ND	μg/L	ND						
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND	0.14	ND	ND
Benzo(g,h,i)perylene		μg/L	ND						
Benzo(k)fluoranthene	0.002	μg/L	ND						
Chrysene	0.002	μg/L	ND	ND	ND	ND	0.19	ND	ND
Dibenz(a,h)anthracene		μg/L	ND						
Fluoranthene	50	μg/L	ND	ND	ND	ND	0.38	ND	ND
Fluorene	50	μg/L	ND	ND	ND	ND	0.59	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND						
Naphthalene	10	μg/L	ND	ND	ND	ND	3.7	3.4	1.7
Phenanthrene	50	μg/L	ND	ND	ND	ND	2.4	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND	0.58	ND	ND
Inorganics									
Cyanide, Total	200	μg/L	ND	ND	ND	ND	ND	ND	10

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.



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
ВТЕХ			ND						
Benzene	1	μg/L	ND						
Ethylbenzene	5	μg/L	ND						
Toluene	5	μg/L	ND						
Total Xylenes	5	μg/L	ND						
SVOCs			ND	ND	ND	ND	2.4	1.0	0.97
Acenaphthene	20	μg/L	ND						
Acenaphthylene		μg/L	ND						
Anthracene	50	μg/L	ND						
Benzo(a)anthracene	0.002	μg/L	ND						
Benzo(a)pyrene	ND	μg/L	ND						
Benzo(b)fluoranthene	0.002	μg/L	ND						
Benzo(g,h,i)perylene		μg/L	ND						
Benzo(k)fluoranthene	0.002	μg/L	ND						
Chrysene	0.002	μg/L	ND						
Dibenz(a,h)anthracene		μg/L	ND						
Fluoranthene	50	μg/L	ND						
Fluorene	50	μg/L	ND						
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND						
Naphthalene	10	μg/L	ND	ND	ND	ND	2.4	1.0	0.97
Phenanthrene	50	μg/L	ND						
Pyrene	50	μg/L	ND						
Inorganics									
Cyanide, Total	200	μg/L	3.1 J	ND	ND	30	ND	ND	12

Notes:

Results are presented in units of micrograms per liter ($\mu g/L$).

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.



Appendix A – Field Inspection Reports

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

Date:	12/15/2022	Watertown, New York	Time:	8:45
Technician:	KL		Weather:	Cloudy 27

G	eneral Site	Wid	e Cor	nditions	
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	FA	AIR	POOR	COMMENTS:
Conditon of the front sidewalks?	GOOD	FA	AIR	POOR	COMMENTS:
Conditon of the building foundations?	GOOD	FA	AIR	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				

Site Management Plan Inspection Form Anthony Street Former MGP Site

Date:	9/29/2022	Watertown, New York	Time:	7:30
Technician:	KL		Weather:	Partly Cloudy 48

G	eneral Site	Wid	e Cor	nditions	
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	FA	MR	POOR	COMMENTS:
Conditon of the front sidewalks?	GOOD	F.A	ΝR	POOR	COMMENTS:
Conditon of the building foundations?	GOOD	F <i>F</i>	MR	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			

Site Management Plan Inspection Form Anthony Street Former MGP Site

Date:	6/8/2022	Watertown, New York	Time:	8:00
Technician:	KL		Weather:	Partly Cloudy 60

G	eneral Site	Wid	e Cor	nditions	
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	FA	AIR	POOR	COMMENTS:
Conditon of the front sidewalks?	GOOD	FA	AIR	POOR	COMMENTS:
Conditon of the building foundations?	GOOD	FA	AIR	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			

Site Management Plan Inspection Form Anthony Street Former MGP Site

Date:	3/29/2022	Watertown, New York	Time:	8:00
Technician:	KL		Weather:	Sunny 20

G	eneral Site	Wid	e Cor	nditions	
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	FA	AIR	POOR	COMMENTS:
Conditon of the front sidewalks?	GOOD	FA	AIR	POOR	COMMENTS:
Conditon of the building foundations?	GOOD	FA	AIR	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		



Appendix B – Well Sampling Field Data

Well ID	Sample?	Well Size	DTW	DTP	DTB	Comments
MW-1	Yes	2"	7:44		7.85	
MW-2	Yes	2"	5.30		7.30	
MW-3	Yes	2"	DRY		5.76	historically dry
MW-3R	Yes	2"	22.79		23.30	
MW-4R	Yes	2"	22.40		44.80	MS/MSD
MW-5R	Yes	2"	22-23		44.45	Field Duplicate
MW-6R	Yes	2"	22.52		45.00	
MW-7R	Yes	2"	21.45		45.05	

DTW -depth to water

DTP -depth to product

DTB -depth to bottom

		Date: 6/9/22
Sampling Personnel:	h	
Job Number: 0603275-1360)10-221	Weather: Pc 60
Well Id. MW-1		Time In: 09:45 Time Out:
Well information		
	TOC Other	Well Type: Flushmount Stick-Up
Depth to Water:	(feet) 7-49	Well Locked: Yes No No
Depth to Bottom:	(feet) 7.85	Measuring Point Marked: Yes No No
Depth to Product:	(feet)	Well Material: PVC SS Other:
Length of Water Column:	(feet) Or 4	Well Diameter: 1" 2" Other:
Volume of Water in Well:	(gal) 6.065	Comments:
Three Well Volumes:	(gal) 0.19V	
Purging Information		
Furging information		Conversion Factors
Purging Method:	Bailer Peristaltic Grund	fos Pump gal/ft. 1" ID 2" ID 4" ID 6" ID
Tubing/Bailer Material:	·	lyethylene of
Sampling Method:		water 0.04 0.16 0.66 1.47
Average Pumping Rate:	(ml/min) 2-2:	1 gallop=3.785L=3785mL=1337cu. feet
Duration of Pumping:	(min) 20	
Total Volume Removed:	(gal) 2 Did well go dry'	? Yes No
Horiba U-52 Water Quality Me	ter Used? Yes No No	
Time DTW	Temp pH QRP	Conductivity Turbidity DO TDS
(feet)	(fnV)	(mS/cm) (NTU) (mg/L) (g/L)
09:00		
00:05		
06:10		
09:15		
09:20		
00.20		
09.30		
O-marling Information.		$\neg \neg \neg \neg x \cup y \cup \neg x \cup y \cup x \cup y \cup x \cup y \cup x \cup x \cup x \cup x \cup$
Sampling Information:	// /	
	SVOC BALL'S	100ml ambers Yes No
EPA SW-846 Method 8270	SVOC PAH'S	3 - 40 ml vials Yes No
EPA SW-846 Method 8260	VOC's BTEX	1 - 250 ml plastic Yes No
EPA SW-846 Method 9012	Total Cyanide	
	n Duntinata V Na P	Shipped: Pace Courier Pickup
Sample ID: MW-1-062		Drop-off Albany Service Center
Sample Time:	MS/MSD? Yes No	
Comments/Notes:		Laboratory: Pace Analytical
		Greensburg, PA _{Page 8 of 2}
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						/ /		
Sampling Person	onnel:	El you		<u> </u>	Date: 6/	8/22		
Job Number:	0603275-13	•	·		Weather:	55° Park	4 cloudy	·
Well Id.	MW-3R				Time In: c	945	Time Out:	<u>1000</u>
						······································		
Well Info	rmation							
			TOC	Other	Well Type:		nmount S Yes	tick-Up No
Depth to Water		(feet)	22.78 23.30		Well Locked Measuring Po		Yes	No
Depth to Produ		(feet)	23.30		Well Materi		SSOthe	er:
Length of Water		(feet)	.52		Well Diame	rter: 1"[2" \ Othe	er:
Volume of Wat		(gal)	-08		Comments			
Three Well Vo	lumes:	(gal)	,24			 		
							<u></u>	
								
Purging In	formation						Conversion F	actors
Purging Metho	nd.		iler Perista	altic Grund	fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer I		- I	ion Stainless	- 1	yethylene	of		
Sampling Meth			iler Perista	- >	fos Pump	water	0.04 0.16	0.66 1.47
Average Pump		(ml/min)				1 gali	on=3.785L=3785m	L=1337cu. feet
Duration of Pu		(min)			<u> </u>			
Total Volume	Removed:	(gal)		Did well go dry?	Yes X No			
Horiba U-52 V	Vater Quality N	Meter Used?	,	res No 🗌				
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
11				1	1			
		<u> </u>		<u> </u>	 			
	formation							
Sampling In	formation:							
Sampling In		SVC	OC PAH's			2 - 100ml am	bers Yes	No
Sampling In	46 Method 8270		OC PAH's			2 - 100ml am 3 - 40 ml via		[]
Sampling In EPA SW-8 EPA SW-8		voc	-				als Yes	No No
Sampling In EPA SW-8 EPA SW-8	46 Method 8270 346 Method 8260	voc	l Cyanide			3 - 40 ml via 1 - 250 ml pla	als Yes estic Yes	No No
Sampling In: EPA SW-8 EPA SW-8 EPA SW-8 Sample ID:	46 Method 8270 346 Method 8260	VOC Tota	c's BTEX I Cyanide Duplicate?	Yes No	S	3 - 40 ml via 1 - 250 ml pla hipped: F	als Yes astic Yes Pace Courier Picl	No No No
Sampling In EPA SW-8 EPA SW-8	46 Method 8270 346 Method 8260 346 Method 9012	VOC Tota	l Cyanide	Yes No Yes No	S	3 - 40 ml via 1 - 250 ml pla hipped: F Drop-	als Yes ustic Yes Pace Courier Picl off Albany Servic	No No No Cup E Center
Sampling In: EPA SW-8 EPA SW-8 EPA SW-8 Sample ID:	46 Method 8270 346 Method 8260 346 Method 9012 MW-3R-0	O VOC 2 Tota 0622	c's BTEX I Cyanide Duplicate?	Yes No	3	3 - 40 ml via 1 - 250 ml pla hipped: F	als Yes astic Yes Pace Courier Picl off Albany Servic Pace An	No No No Cup E Center

Anthony Street, Watertown New York	
Sampling Personnel:	Date: 6/8/27
Job Number: 0603275-136010-221	Weather: 62
Well Id. MW-2	Time In: 0-55 Time Out:
Wolfied.	
Well InformationTOCOtherDepth to Water:(feet)20.405-30Depth to Bottom:(feet)7.30	Well Type: Flushmount Stick-Up Well Locked: Yes Measuring Point Marked: Yes Well Material: PVC SS Other:
Depth to Product: (feet) Length of Water Column: (feet) Volume of Water in Well: (gal) Three Well Volumes: (gal) 3-32	Well Material: PVC SS Other: Well Diameter: 1" 2" Other:
Tubing/Bailer Material: Teflon Stainless St. Polye	Conversion Factors gal/ft. 1" ID 2" ID 4" ID 6" ID of water 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet Yes No
Time DTW Temp pH ORP (feet) (°C) (mV)	Conductivity Turbidity DO TDS (g/L) (mS/cm) (NTU) (mg/L) (g/L) 0.000 167 172 7-29 0-313 0.471 37.0 7-23 0.366 0.466 10-1 7-41 0-323 0.467 5.0 7.18 0.303 0.468 3.0 6.49 0.304
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' Sample ID: MW-2-0622 Duplicate? Yes No Sample Time: MS/MSD? Yes No Comments/Notes:	2 - 100ml ambers Yes No 3 - 40 ml vials Yes No No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup Drop-off Albany Service Center Laboratory: Pace Analytical Greensburg, PA

					C. 100			
Sampling Personnel: Pcker	400			Date: //	9/12	44 44 1		
Job Number: 0603275-136010-221				Weather: 67 Partly Cloudy				
Well ld. MW-3			Time In: 🐧	2944	Time Out:	0945		
Well Information						\		
		TOC	Other	Well Type:		()	tick-Up	
Depth to Water:	(feet)			Well Locked		Yes Yes	No No	
Depth to Bottom:	(feet)	5/16		Measuring Po Well Materia	r r		L	
Depth to Product: Length of Water Column:	(feet)			Well Diame	*	2" Othe		
Volume of Water in Well:	(gal)			Comments:				
Three Well Volumes:	(gal)							
					-,	·		
								
Purging Information								
	_		N 21	_		Conversion F	actors 4" ID 6" ID	
Purging Method:	Bailer		/ 	os Pump	gal/ft.	1 10 2 10	4 10 6 10	
Tubing/Bailer Material:	Teflon			ethylene os Pump	of water	0.04 0.16	0.66 1.47	
Sampling Method: Average Pumping Rate:	Bailer (ml/min)	Penstani	Glullar	os i ump		on=3.785L=3785m		
Duration of Pumping:	(min)							
Total Volume Removed:	(gal)		Did well go dry?	Yes 🔀 No				
Horiba U-52 Water Quality Me			s No					
HOURS 0-32 Water Granty IN	eter Osca:	, 0						
		На		Conductivity	Turbidity	DO	TDS	
Time DTW	Temp	рН	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)	
		рН	ORP	1 1		1	i !	
Time DTW	Temp	рН	ORP	1 1		1	i !	
Time DTW	Temp	рН	ORP	1 1		1	i !	
Time DTW	Temp	pH	ORP	1 1		1	i !	
Time DTW	Temp	pH	ORP	1 1		1	i !	
Time DTW	Temp	pH	ORP	1 1		1	i !	
Time DTW	Temp	pH	ORP	1 1		1	i !	
Time DTW	Temp	рН	ORP	1 1		1	i !	
Time DTW	Temp	pH	ORP	1 1		1	i !	
Time DTW	Temp	рН	ORP	1 1		1	i !	
Time DTW (feet)	Temp	pH	ORP	1 1		1	i !	
Time DTW	Temp	pH	ORP	1 1		1	i !	
Time DTW (feet) Sampling Information:	Temp (°C)		ORP	1 1	(NTU)	(mg/L)	(g/L)	
Time DTW (feet) Sampling Information:	Temp (°C)	PAH's	ORP	1 1	(NTU)	bers Yes	(g/L)	
Sampling Information: EPA SW-846 Method 8270 EPA SW-846 Method 8260	Temp (°C)	PAH's BTEX	ORP	1 1	(NTU)	bers Yes	(g/L)	
Time DTW (feet) Sampling Information:	Temp (°C)	PAH's BTEX	ORP	1 1	2 - 100ml aml 3 - 40 ml via	bers Yes	(g/L)	
Sampling Information: EPA SW-846 Method 8270 EPA SW-846 Method 9012	Temp (°C) SVOC VOC's Total C	PAH's BTEX	ORP	(mS/cm)	2 - 100ml aml 3 - 40 ml via 1 - 250 ml pla	bers Yes als Yes astic Yes	(g/L)	
Sampling Information: EPA SW-846 Method 8270 EPA SW-846 Method 9012	Temp (°C) SVOC VOC's Total C	PAH's BTEX yanide	ORP (mV)	(mS/cm)	2 - 100ml aml 3 - 40 ml via 1 - 250 ml pla	bers Yes	(g/L)	
Time DTW (feet) Sampling Information: EPA SW-846 Method 8270 EPA SW-846 Method 8260 EPA SW-846 Method 9012 Sample ID: MW-3-06	SVOC VOC's Total C	PAH's BTEX yanide uplicate?	ORP (mV)	(mS/cm)	2 - 100ml aml 3 - 40 ml via 1 - 250 ml pla	bers Yes als Yes astic Yes Pace Courier Pick off Albany Servic	(g/L) No No No No No Cup e Center	

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				Detail 1	18/22			
Sampling Personnel: //		<u> </u>		Date:	Gmy 62	<u> </u>	<u>,,</u>	
Job Number: 0603275-136010-221								
Well Id. MW-4R				Time In:	17:10	Time Out:		
Well Information	. т	-oc (Other	Well Type:	Flush	nmount S	tick-Up	
D-th to Wotor	(feet) 22-		Other	Well Locke	d:	Yes	No	
Depth to Water: Depth to Bottom:		4.80		Measuring P		Yes	No	
Depth to Product:	(feet)			Well Mater	· · · · · · · · · · · · · · · · · · ·	SS Othe		
Length of Water Column:	(feet) 22	2		Well Diame	, ici.	2" \Othe	ai	
Volume of Water in Well:	(gal) 3.	50		Comments	its:			
Three Well Volumes:	(gal) /0-	75						
Duraling Information								
Purging Information						Conversion F		
Purging Method:	Bailer	Peristaltic		os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID	
Tubing/Bailer Material:	Teflon	Stainless St.	. 	yethylene	of	0.04 0.16	0.66 1.47	
Sampling Method:	Bailer	Peristaltic	Grund ^a	fos Pump	water	on=3.785L=3785m		
Average Pumping Rate:		<u> </u>			1 gain	0(1-3.703L-0700H	10010411001	
Duration of Pumping:		20 Di	id well go dry?	Yes No.				
Total Volume Removed:				100	5 '			
Horiba U-52 Water Quality Mo	eter Used?	Yes	No					
			ODD	Conductivity	Turbidity	DO	TDS	
Time DTW	Temp	pH	ORP (mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	
(feet) (72.93	(°C)	6-54	36	3.06	79	1. 8	1.96	
19 20 23.51	13.84	77	3	3.2	4.9	0.87	2-00	
06:15 Dy Us	13.01	7.43	-36	3.13	2.	0.63	1.99	
09:30 25:07	12-49	7.42	-55	2.61	6-5	0.67	1-6-	
1935 25.16	12.68	7-26	-44	2-19	127	079	1.37	
09:40 2030	13.23	<u> 7.08</u>	-90	07-0-J	1/0 =	12 62	1-32	
09:45 20.99	13.20	7-00	-129	2-0-	1 70 5	0: 23	/3/	
	-	<u> </u>			<u>† </u>			
						<u> </u>		
Sampling Information:								
						t		
EPA SW-846 Method 8270	SVOC P				6 - 100ml am		s No No	
EPA SW-846 Method 8260					9 - 40 ml via 3 - 250 ml pla			
EPA SW-846 Method 9012					o - Zou iii pi	20110	- كا ```لكا	
	W-4R-MSD-06	plicate?	Yes No D	7	Shipped:	Pace Courier Pic	ckup 🔀	
Sample ID: MW-4R-0		plicate? S/MSD?	Yes No	7		off Albany Servi	ce Center	
Sample Time:					Laboratory:	Pace A	nalytical	
Comments/Notes:					Laboratory.		ourg, PA	
\\syrrmt88-vm3\syracuse-01\Dashb	oard\Planning\898	3691.xlsm		<u>L</u>			Page 12 of	

Anthony Street,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Sampling Personnel: Pake 1975					Date: 6/8/22				
Job Number: 0603275-136010-221					Weather: 67 Suny				
					Time In: 10/8 Time Out: 1/00				
Well Id.	MW-6R								
Well Info	rmation							ck-Up	
				Other	Well Type:		mount Sti	No No	
Depth to Water	r:		2252		Well Locked		Yes	No	
Depth to Botton	m:	(feet)	45.00		Measuring Po	- T	SSOthe		
Depth to Produ				Well Diameter: 1" 2" Other:					
Length of Wate					Comments:	· _			
Volume of Wat			10.79						
Three Well Vo	iumes:	(gal)	70.77						
Purging In	formation						Conversion Fa	otore	
						 	1" ID 2" ID	4" ID 6" ID	
Purging Metho	od:	Bailer	Peristaltic	/ 	s Pump	gal/ft.	1 10 2 10	7 10 0 10	
Tubing/Bailer Material: Teflon Stainless St. Po					ethylene	of water	0.04 0.16	0.66 1.47	
Sampling Method: Bailer Peristaltic Grund					s Pump[n=3.785L=3785ml	 _i	
Average Pum		(ml/min)	200			<u> </u>			
Duration of Pu		(min)	<u>36 </u>	oid well go dry?	Yes No	\			
Total Volume		(gal)				_			
Horiba U-52 V	Vater Quality N	leter Used?	Yes	No.					
				LOPP	Conductivity	Turbidity	DO	TDS	
Time	DTW	Temp	pН	ORP	(mS/cm)	(NTU)	(mg/L)	(g/L)	
<u> </u>	(feet)	(°C)	2.39	(mV)	5.09	57.7	2.71	3.21	
1020	22.52	14.68		89	5.26	41.2	0.00	3.32	
1025	22.52	13.54	2.36 2.38	-52	5.05	18.3	0.00	3.18	
1030	22.52	12.59	7.38	-53	4.81	8.9	0.00	3.08	
/035_	2252	12.51							
	102-7	17 70	241	1 -22	4.37	2.4	0.14	2.78	
1040	22.52	12.30	7.41	28		<u> 5,3</u>	2.11	2.28	
1045	22.52	12.40	2.47	28 57	4.37 3.41 3.13		0.14 2.11 3.01	2.78	
		 	7.47 7.47 7.50	28	3.41	<u> 5,3</u>	2.11	2.28	
1045	22.52	12.40	2.47	28	3.41	<u> 5,3</u>	2.11	2.28	
1045	22.52	12.40	2.47	28	3.41	<u> 5,3</u>	2.11	2.28	
1045	22.52	12.40	2.47	28	3.41	<u> 5,3</u>	2.11	2.28	
1045	22.52	12.40	2.47	28	3.41	<u> 5,3</u>	2.11	2.28	
1045	22.52	12.40	2.47	28	3.41	5.3 4.5	3.01	2.28 2.18 2.00	
1045 1050 Sampling Ir	Da. 52 Da. 52	12.40	7.47	28	3.41	5.3 4.5	2.11 3.01 bers Yes	2.28 2.18 2.00	
Sampling In	nformation:	12.40 12,68	7.47	28	3.41	2 - 100ml am 3 - 40 ml via	bers Yes	2.28 2.18 2.00	
Sampling Ir EPA SW-I EPA SW-I	22.52 22.52 nformation: 846 Method 8270 846 Method 826	12.40 12,68 3 SVOC 0 VOC's	7.47 7.50	28	3.41	5.3 4.5	bers Yes	2.29 2.18 2.00	
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0905	21.47	12,56	6.98	208	4.10	2.5	3.24	2.63	
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CHAIN-OF-CUSTODY / Analytical Request Document

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Appendix C – Data Usability Summary Report



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

January 27, 2023

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. 30496911

Groundwater & Environmental Services, Inc. (GES) reviewed one data package (Laboratory Project Number 30496911) from Pace Analytical Services, LLC in Greensburg, PA., for the analysis of groundwater samples collected on June 8, 2022 from monitoring wells located at the National Grid: Watertown, NY Site. Five 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/9012B, 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					
	J-	Cyanide	Low MS Recovery					
MW-4R	J	Ethylbenzene, Xylene, (Total) and o-Xylene	MS/MSD recovery high					
MW-2		-						
MW-4R	J- (detects)	All SVOCs except	Missed hold time					
MW-6R	UJ- (non-detects)	otherwise qualified	Wissed hold time					
MW-7R		_						
MW-2								
MW-4R			Method blank detection					
MW-5R	J+	Naphthalene						
MW-6R			High LCS recovery					
MW-7R								

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.

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

MS/MSD recoveries were high for all analytes except benzene. Relative percent differences (RPD) were within laboratory and EPA criteria. Positive detections of ethylbenzene, xylenes (total), and o-xylene are qualified as estimated with a possible high bias.

The blind field duplicate correlations MW-5R, where applicable, fall below the EPA recommended 30% for aqueous duplicate samples.

PAHs by EPA8270D/NYSDEC ASP

Holding times were met with the exception of the following samples:

- MW-2
- MW-4R
- MW-6R



• MW-7R

Detections in these samples are qualified as estimated with a possible low bias.

Samples were diluted due to high levels of non-target analytes. Elevated reporting limits are used by the laboratory:

- FD-0622
- MW-5R

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 1.4 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 for naphthalene associated with MW-4R were outside laboratory specifications. This compound is already qualified due to previous blank and LCS noncompliance.

The blind field duplicate correlations MW-5R, where applicable, fall below the EPA recommended 30% for aqueous duplicate samples. The exception to this is a detection of acenaphthylene in the duplicate at $50.2 \,\mu\text{g/L}$ where the corresponding analyte in the original was reported as non-detect. The reporting limit in the original sample was above $51.2 \,\mu\text{g/L}$, elevated due to dilution. The data in the field duplicate is not qualified.

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:

• Low recovery of cyanide in the MS and MSD prepared from the sample MW-4R. Low recoveries indicate a possible low bias. Cyanide is qualified as estimated with a possible low bias 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 MW-5R, where applicable, 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

Sjantwick

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



SAMPLE SUMMARY

Project: National Grid - Watertown, NY

Pace Project No.: 30496911

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30496911001	MW-2-0622	Water	06/08/22 11:30	06/09/22 09:40
30496911002	MW-4R-0622	Water	06/08/22 09:45	06/09/22 09:40
30496911003	MW-4R-MS-0622	Water	06/08/22 09:45	06/09/22 09:40
30496911004	MW-4R-MSD-0622	Water	06/08/22 09:45	06/09/22 09:40
30496911005	MW-5R-0622	Water	06/08/22 10:45	06/09/22 09:40
30496911006	MW-6R-0622	Water	06/08/22 10:50	06/09/22 09:40
30496911007	MW-7R-0622	Water	06/08/22 09:30	06/09/22 09:40
30496911008	FD-0622	Water	06/08/22 00:00	06/09/22 09:40
30496911009	Trip Blanks	Water	06/08/22 10:28	06/09/22 09:40

REPORT OF LABORATORY ANALYSIS



Project: National Grid - Watertown, NY

Pace Project No.: 30496911

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: June 21, 2022

General Information:

8 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.

H2: Extraction or preparation conducted outside EPA method holding time.

MW-2-0622 (Lab ID: 30496911001)MW-4R-0622 (Lab ID: 30496911002)

• MW-6R-0622 (Lab ID: 30496911006)

• MW-7R-0622 (Lab ID: 30496911007)

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: 511851

B: Analyte was detected in the associated method blank.

- BLANK for HBN 511851 [OEXT/471 (Lab ID: 2480901)
 - Naphthalene

Laboratory Control Spike:

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

QC Batch: 511851

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

- LCS (Lab ID: 2480902)
 - Naphthalene

REPORT OF LABORATORY ANALYSIS



Project: National Grid - Watertown, NY

Pace Project No.: 30496911

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: June 21, 2022

Matrix Spikes:

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

QC Batch: 511851

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30496911002

R1: RPD value was outside control limits.

• MSD (Lab ID: 2480904)

Naphthalene

QC Batch: 512937

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

Additional Comments:

Analyte Comments:

QC Batch: 511851

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

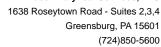
- FD-0622 (Lab ID: 30496911008)
 - Fluorene
 - Phenanthrene
- MW-5R-0622 (Lab ID: 30496911005)
 - Acenaphthylene
 - Fluorene
 - Phenanthrene

QC Batch: 512937

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- MW-2-0622 (Lab ID: 30496911001)
 - 2-Methylnaphthalene
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - Chrysene
 - Dibenz(a,h)anthracene
 - Fluorene
 - Fluoranthene
 - Indeno(1,2,3-cd)pyrene
 - Naphthalene
 - Phenanthrene
 - Pyrene

REPORT OF LABORATORY ANALYSIS





Project: National Grid - Watertown, NY

Pace Project No.: 30496911

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: June 21, 2022

Analyte Comments: QC Batch: 512937

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- MW-4R-0622 (Lab ID: 30496911002)
 - 2-Methylnaphthalene
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - Chrysene
 - Dibenz(a,h)anthracene
 - Fluorene
 - Fluoranthene
 - Indeno(1,2,3-cd)pyrene
 - Naphthalene
 - Phenanthrene
 - Pyrene
- MW-6R-0622 (Lab ID: 30496911006)
 - 2-Methylnaphthalene
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - Chrysene
 - Dibenz(a,h)anthracene
 - Fluorene
 - Fluoranthene
 - Indeno(1,2,3-cd)pyrene
 - Naphthalene
 - Phenanthrene
 - Pyrene
- MW-7R-0622 (Lab ID: 30496911007)
 - 2-Methylnaphthalene
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene

REPORT OF LABORATORY ANALYSIS



Project: National Grid - Watertown, NY

Pace Project No.: 30496911

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: June 21, 2022

Analyte Comments: QC Batch: 512937

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- MW-7R-0622 (Lab ID: 30496911007)
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - Chrysene
 - Dibenz(a,h)anthracene
 - Fluorene
 - Fluoranthene
 - Indeno(1,2,3-cd)pyrene
 - Naphthalene
 - Phenanthrene
 - Pyrene

REPORT OF LABORATORY ANALYSIS



Project: National Grid - Watertown, NY

Pace Project No.: 30496911

Method: EPA 8260C Description: 8260C MSV

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

Date: June 21, 2022

General Information:

9 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: 511163

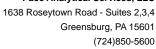
A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30496911002

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

- MS (Lab ID: 2477937)
 - Ethylbenzene
 - Toluene
 - m&p-Xylene
 - o-Xylene

Additional Comments:

REPORT OF LABORATORY ANALYSIS





Project: National Grid - Watertown, NY

Pace Project No.: 30496911

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

Date: June 21, 2022

General Information:

8 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: 511848

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30496911002

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

- MSD (Lab ID: 2480894)
 - Cyanide

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS