

December 30, 2021

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

1 East Street, Ilion, New York

**Annual Groundwater Monitoring Report** 

Dear Mr. Deyette:

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

Groundwater and Environmental Service, Inc., (GES) contractor for National Grid, conducts all long-term monitoring and sampling activities at the site. Quarterly site inspections were conducted in 2021 (January, April, July, and October). The site is generally in good shape and in compliance. There were detections in several of the wells during the April and October 2021 sampling events that exceeded the regulatory criteria.

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 Ilion Former MGP Site 1 East Street, Ilion, NY 13357

December 2021

Version 1



### **Annual Groundwater Monitoring Report**

National Grid Ilion Former MGP Site 1 East Street Ilion, NY 13357

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

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Date:

December 30, 2021

Devin T. Shay, PG

Program Manager / Principal Hydrogeologist





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#### 1 Introduction

This Annual Groundwater Monitoring Report presents results from the activities conducted at the Ilion (East Street and State Street) former non-owned manufactured gas plant (MGP) site (the Site) located in Ilion, New York (Site #6-22-019). A site location map is presented on Figure 1, and a site map is presented as Figure 2. All work summarized herein has been conducted in accordance with the approved Site Management Plan (SMP) for the property, dated October 22, 2018, prepared for and submitted to the New York State Department of Environmental Conservation (NYSDEC) by Arcadis.

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

### 2 Semi-Annual Groundwater Monitoring

### 2.1 Objectives

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

- Obtain groundwater elevation data from monitoring wells in the vicinity of the site to evaluate groundwater flow direction, and 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 April 22, 2021, and October 21, 2021 groundwater monitoring field activities were conducted by GES. Prior to collecting groundwater samples, static fluid level measurements were collected from MW-02R, MW-03, MW-06, MW-07, W-08R, and MW-13. Water levels were measured to the nearest 0.01 foot using an electronic oil-water interface probe to determine the depth from a surveyed mark on the top of the inner polyvinyl chloride (PVC) well casing to the groundwater within the well.

The fluid level measurements obtained from each monitoring well were converted to groundwater elevations using the surveyed well elevations. The calculated groundwater elevations for each monitoring well are listed in Table 1. Table 1 also includes groundwater elevation measurements obtained during previous groundwater monitoring events, and is depicted on Figures 3 and 5.



Groundwater generally flows to the north from the Site toward the Mohawk River. Groundwater elevations ranged from 385.42 feet above sea level (asl; well MW-03) to 386.49 feet asl (well MW-08R). 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 April 22, 2021, and October 21, 2021 (including MW-02R, MW-03, MW-06, MW-07, MW-08R, and MW-13). Low-flow sampling techniques were used to purge groundwater from each monitoring well prior to collecting groundwater samples. Field parameters (consisting of turbidity, temperature, pH, conductivity, oxidation reduction potential [ORP], and dissolved oxygen) were measured approximately every 5 to 10 minutes during well purging, and the depth to water was monitored throughout the pumping process to minimize drawdown within the well. Well purging activities continued at each well until the field parameters stabilized and the turbidity of the water in the wells was reduced to less than 50 nephelometric turbidity units (NTUs). Groundwater field data is presented in Appendix B.

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

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

Analytical results from the laboratory analysis report are summarized in Table 2 and compared to the Class GA groundwater standards and guidance values presented in TOGS 1.1.1. VOC exceedances are bolded on Table 2 and further shown on Figures 4, and 6. The Data Usability Summary Report (DUSR) is included in Appendix C.

There were BTEX and/or PAH detections in all the monitoring wells sampled in April 2021 and October 2021, with the exception of MW-06, MW-08, and MW-13 in April and October 2021 and MW-03 in October 2021. In April 2021, 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 MW-02R, MW-06, MW-07, MW-08R, and MW-13 in April 2021. In October 2021, BTEX and acenaphthene were detected above the regulatory criteria in one or more samples. Cyanide was detected in MW-02R MW-07, and MW-08R during the October 2021 sampling event.



### 3 Quarterly Site-Wide Inspections

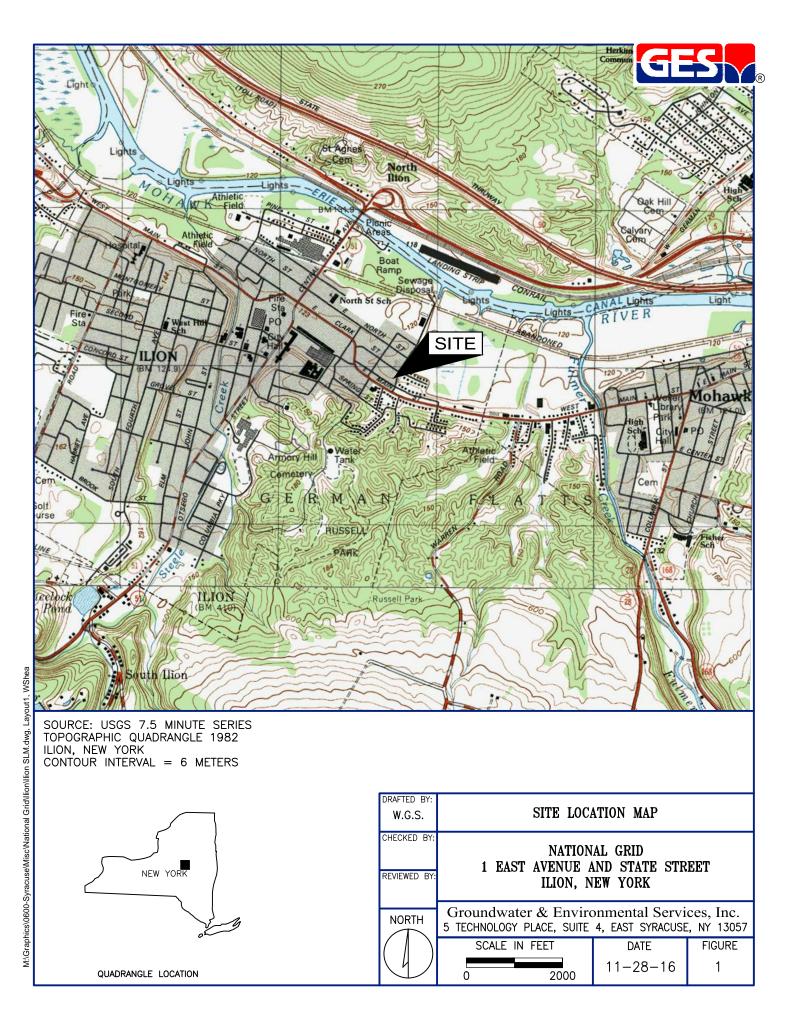
The quarterly site-wide inspections were completed on January 14, April 22, July 1, and October 21, 2021. The Site Inspection Forms are presented in Appendix A. In general, the Site is in compliance.

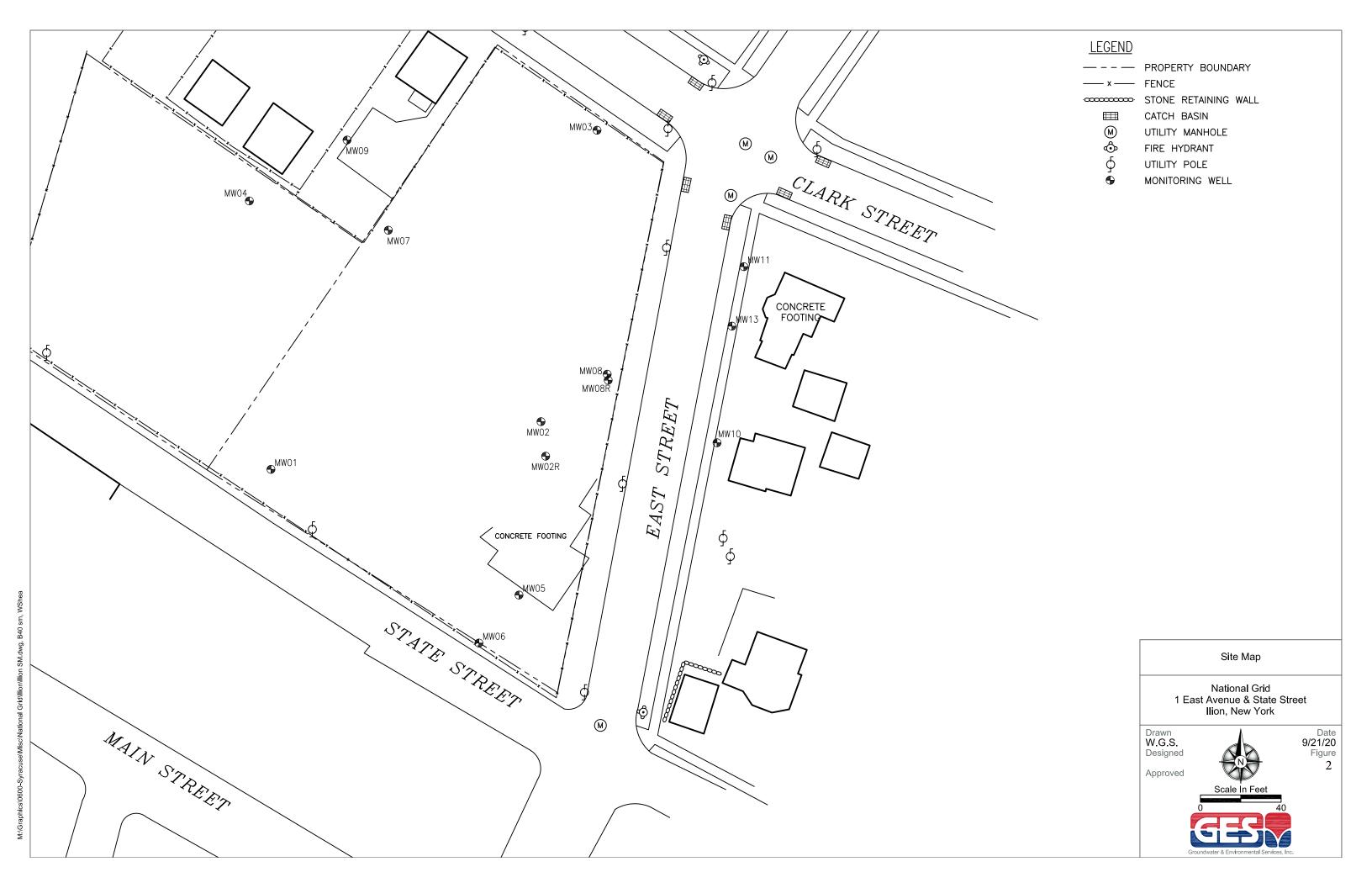
#### 4 Recommendations

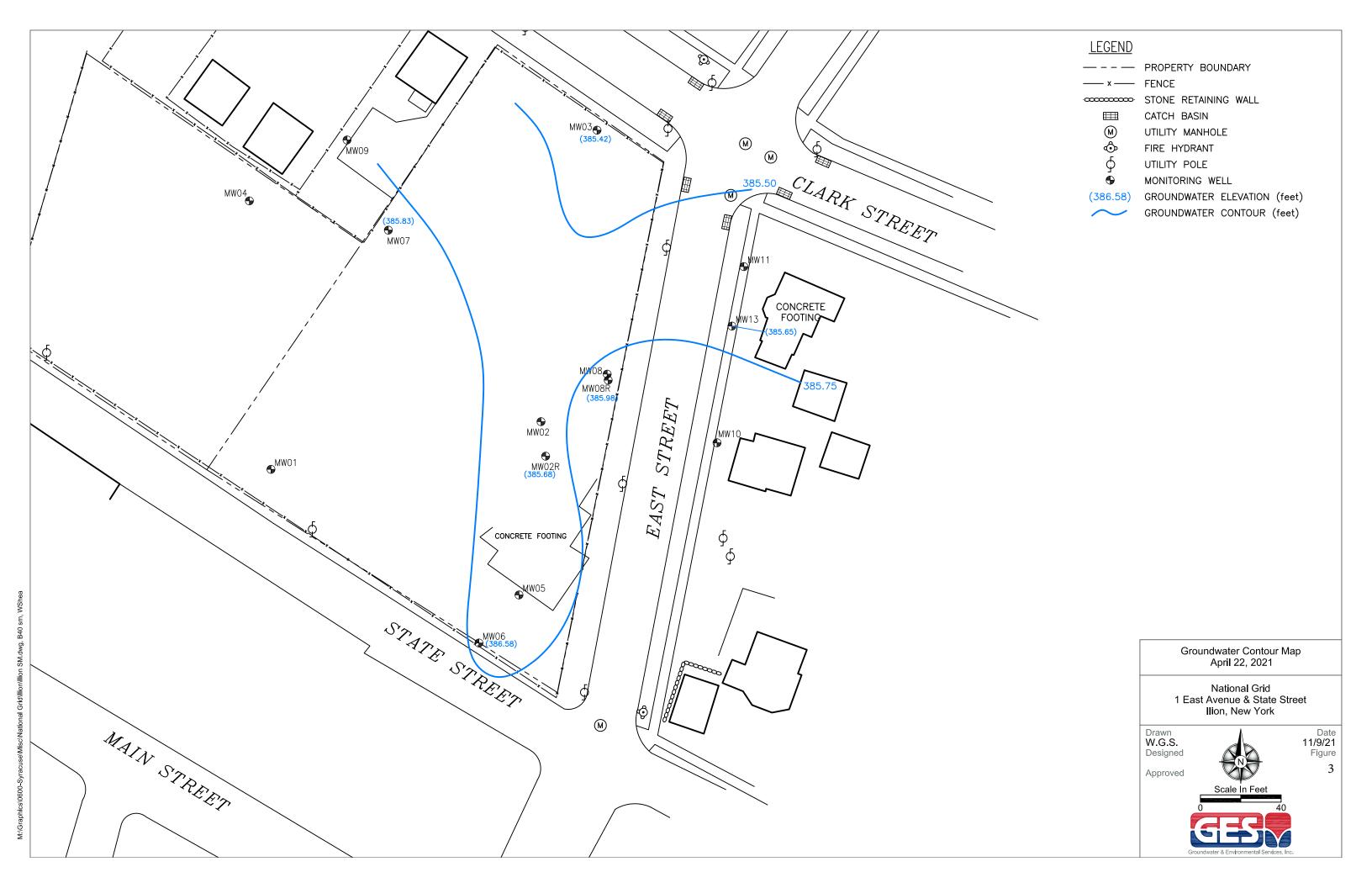
At this time, National Grid recommends continuing the semi-annual monitoring activities. The next semi-annual groundwater sampling event would be in April 2022. Semi-annual site-wide inspections are required; however, for internal security purposes, National Grid will continue to conduct quarterly site-wide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



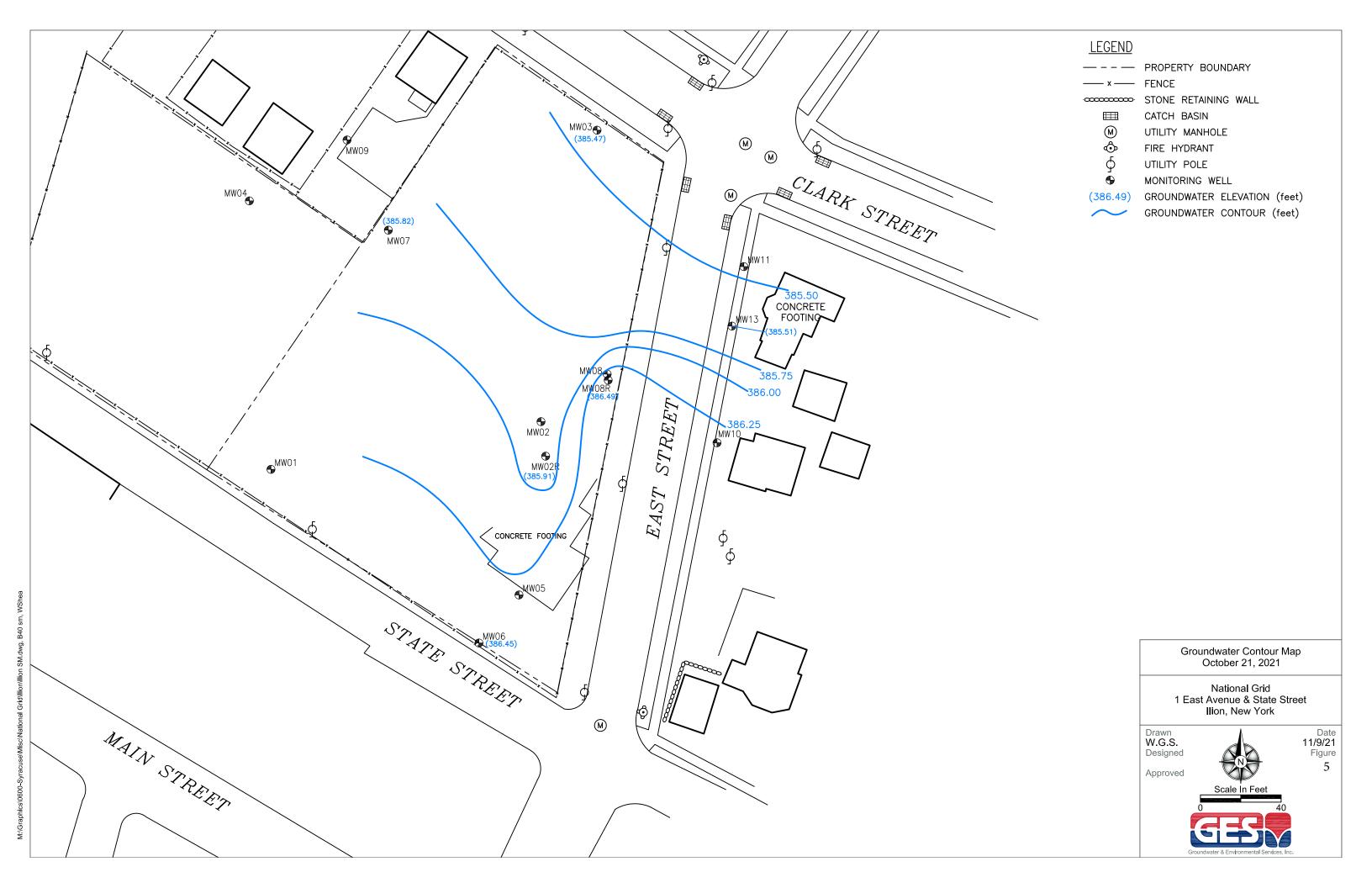
### **Figures**















### **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 (10/05/17)	Groundwater Elevation (10/05/17)	Depth To Water (10/25/19)	Groundwater Elevation (1025/19)	Depth To Water (05/07/20)	Groundwater Elevation (05/07/20)	Depth To Water (10/12/20)	Groundwater Elevation (10/12/20)	Depth To Water (4/22/21)	Groundwater Elevation (4/22/21)	Depth To Water (10/21/21)	Groundwater Elevation (10/21/21)
MW-02R	Flushmount; PVC; 2-inch	398.43	18.0	380.43	8.0 - 18.0	14.15	384.28	10.83	387.60	12.12	386.31	12.82	385.61	12.75	385.68	12.52	385.91
MW-03	Flushmount; PVC; 2-inch	391.44	28.0	363.44	15.0 - 25.0	7.13	384.31	4.95	386.49	5.90	385.54	5.95	385.49	6.02	385.42	5.97	385.47
MW-06	Flushmount; PVC; 2-inch	404.21	28.0	376.21	15.0 - 25.0	19.00	385.21	16.43	387.78	16.96	387.25	17.59	386.62	17.63	386.58	17.76	386.45
MW-07	Flushmount; PVC; 2-inch	394.54	18.4	376.14	8.4 - 18.4	10.18	384.36	7.23	387.31	8.31	386.23	8.75	385.79	8.71	385.83	8.72	385.82
MW-08R	Flushmount; PVC; 2-inch	396.00	20.0	376.00	10.0 - 20.0	11.73	384.27	9.46	386.54	9.91	386.09	10.01	385.99	10.02	385.98	9.51	386.49
MW-13	Flushmount; PVC; 2-inch	392.20	24.0	368.20	14.0 - 24.0	7.95	384.25	5.52	386.68	6.43	385.77	6.54	385.66	6.55	385.65	6.69	385.51



Table 2

### **Groundwater Analytical Data**

MW-02R

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20	04/22/21	10/21/21
BTEX Compounds								
Benzene	μg/L	1	1.3	186	551	632	708	819
Ethylbenzene	μg/L	5	ND (<1.0)	32.8	81.1	103	125	150
Xylenes, Total	μg/L	5	ND (<1.0)	48.8	162	253	288	151
Toluene	μg/L	5	ND (<1.0)	9.1	42.7	43.7	76.6	344
PAHs								
Acenaphthene	μg/L	20	2.4	24.3	20.4	38.3	61.6	57.3
Acenaphthylene	μg/L	NC	1.5	7.5	10.3	19.4	33.7	9.9
Anthracene	μg/L	50	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	0.15
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Chrysene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Fluoranthene	μg/L	50	0.0982 J	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	0.15
Fluorene	μg/L	50	1.08	4.0	4.4	9.0	14.1	14.0
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
2-Methylnaphthalene	μg/L	NC	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Naphthalene	μg/L	10	0.285	133	257	515	1,140	ND (<0.096)
Phenanthrene	μg/L	50	0.554	0.94	2.7	6.7	10.6	0.68
Pyrene	μg/L	50	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)	ND (<0.98)	ND (<0.096)
Cyanide								
Cyanide	μg/L	200	150 J	1,600	3,900	4,100	1,900	570

AWQS

= Ambient Water Quality Standards = Benzene, Ethylbenzene, Toluene and Xylene BTEX

= Estimated Concentration Value

= Milligrams per Liter mg/L

NČ = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

= New York State Department of Environmental Conservation NYSDEC

= Polycyclic Aromatic Hydrocarbons PAHs

= Micrograms per Liter μg/L



Table 2 **Groundwater Analytical Data** MW-03

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20	04/22/21	10/21/21
BTEX Compounds		/// QO Tuluoo						
Benzene	μg/L	1	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	ND (<1.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs		<u>'</u>	, ,	, ,	, ,			, ,
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Acenaphthylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Chrysene	µg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Fluoranthene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
2-Methylnaphthalene	µg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Naphthalene	μg/L	10	ND (<0.10)	ND (<0.099)	0.61	0.24	0.47	ND (<0.097)
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.099)	ND (<0.097)
Cyanide						•		_
Cyanide	μg/L	200	10 J	ND (<10)	ND (<10)	ND (<10)	ND (<10)	ND (<10)

= Ambient Water Quality Standards = Benzene, Ethylbenzene, Toluene and Xylene BTEX

= Estimated Concentration Value

= Milligrams per Liter mg/L

NČ = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

= New York State Department of Environmental Conservation NYSDEC

= Polycyclic Aromatic Hydrocarbons PAHs

= Micrograms per Liter μg/L



Table 2 **Groundwater Analytical Data** MW-06

CONSTITUENT	AWQS Values		10/24/19	05/27/20	10/12/20	04/22/21	10/21/21	
BTEX Compounds								
Benzene	μg/L	1	ND (<0.5)	ND (<1.0)	4.5	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	ND (<1.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs								
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Acenaphthylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Chrysene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Fluoranthene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Naphthalene	μg/L	10	ND (<0.10)	ND (<0.099)	1.2	0.22	ND (<0.10)	ND (<0.097)
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.10)	ND (<0.097)
Cyanide	-		·	-	·	·	·	
Cyanide	μg/L	200	10 J	ND (<10)	ND (<10)	ND (<10)	150	ND (<10)

= Ambient Water Quality Standards = Benzene, Ethylbenzene, Toluene and Xylene BTEX

= Estimated Concentration Value

= Milligrams per Liter mg/L

NČ = No Criteria

= Not detected above laboratory reporting limit (indicated by #) ND (<#)

NS = Not Sampled

= New York State Department of Environmental Conservation NYSDEC

PAHs = Polycyclic Aromatic Hydrocarbons

= Micrograms per Liter μg/L



Table 2 **Groundwater Analytical Data** MW-07

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20	04/22/21	10/21/21
BTEX Compounds								
Benzene	μg/L	1	3.1	ND (<1.0)	2.8	17.2	1.5	ND (<1.0)
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.5	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	2.2	ND (<3.0)	ND (<3.0)	7.1	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs								
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	0.11	0.78	0.11	0.44
Acenaphthylene	μg/L	NC	0.498	0.16	ND (<0.11)	1.7	0.18	0.25
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.17	0.24	ND (<0.098)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.099)	0.47	ND (<0.098)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	0.12	ND (<0.099)	0.46	ND (<0.098)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	0.12	ND (<0.099)	0.62	ND (<0.098)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)	0.22	ND (<0.098)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)	0.59	ND (<0.098)
Chrysene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)	0.34	ND (<0.098)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)	ND(<0.10)	ND (<0.098)
Fluoranthene	μg/L	50	ND (<0.10)	0.10	0.22	0.14	0.96	0.12
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.18	0.15	0.18
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)	0.21	ND (<0.098)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.23	ND(<0.10)	ND (<0.098)
Naphthalene	μg/L	10	3.23	ND (<0.099)	0.47	29.7	0.33	ND (<0.098)
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.17	0.80	ND (<0.098)
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	0.18	ND (<0.099)	0.75	ND (<0.098)
Cyanide						-		
Cyanide	μg/L	200	290 J	ND (<10)	2,300	1,800	740	200

= Ambient Water Quality Standards = Benzene, Ethylbenzene, Toluene and Xylene BTEX

= Estimated Concentration Value

= Milligrams per Liter mg/L

NČ = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

= New York State Department of Environmental Conservation NYSDEC

= Polycyclic Aromatic Hydrocarbons PAHs

= Micrograms per Liter μg/L



Table 2 **Groundwater Analytical Data** MW-08R

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/06/17	10/24/19	05/27/20	10/12/20	04/22/21	10/21/21
BTEX Compounds								
Benzene	μg/L	1	4.1	1.5	3.3	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	μg/L	5	3.6	ND (<1.0)	1.8	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	1.5	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	0.38 J	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs								
Acenaphthene	μg/L	20	2.46	3.2	0.25	1.2	ND (<0.11)	ND (<0.099)
Acenaphthylene	μg/L	NC	9.24	7.8	0.79	2.9	ND (<0.11)	ND (<0.099)
Anthracene	μg/L	50	0.214	0.14	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Benzo(a)anthracene	μg/L	0.002	0.167	0.16	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Benzo(a)pyrene	μg/L	0.002	0.18	0.15	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Benzo(b)fluoranthene	μg/L	0.002	0.18	0.18	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Chrysene	μg/L	0.002	0.155	0.13	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Fluoranthene	μg/L	50	0.514	0.55	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Fluorene	μg/L	50	4.62	4.5	ND (<0.11)	0.88	ND (<0.11)	ND (<0.099)
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Naphthalene	μg/L	10	0.845	0.14	1.0	0.4	ND (<0.11)	ND (<0.099)
Phenanthrene	μg/L	50	2.26	0.27	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Pyrene	μg/L	50	0.421	0.37	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.099)
Cyanide			•					
Cyanide	μg/L	200	430 J	1,200	890	560	170	250

= Ambient Water Quality Standards = Benzene, Ethylbenzene, Toluene and Xylene BTEX

= Estimated Concentration Value

= Milligrams per Liter mg/L

NČ = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

= New York State Department of Environmental Conservation NYSDEC

= Polycyclic Aromatic Hydrocarbons PAHs

= Micrograms per Liter μg/L



Table 2 **Groundwater Analytical Data** MW-13

CONSTITUENT	AWQS Values		10/24/19	05/27/20	10/12/20	04/22/21	10/21/21	
BTEX Compounds								
Benzene	μg/L	1	ND (<0.5)	ND (<1.0)	1.4	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	ND (<1.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs								
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Acenaphthylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Chrysene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Fluoranthene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Naphthalene	μg/L	10	ND (<0.10)	ND (<0.099)	0.63	ND (<0.095)	ND (<0.11)	ND (<0.097)
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)	ND (<0.11)	ND (<0.097)
Cyanide	-		·	-	·	-	·	
Cyanide	μg/L	200	10 J	ND (<10)	ND (<10)	ND (<10)	46.0	ND (<10)

= Ambient Water Quality Standards = Benzene, Ethylbenzene, Toluene and Xylene BTEX

= Estimated Concentration Value

= Milligrams per Liter mg/L

NČ = No Criteria

= Not detected above laboratory reporting limit (indicated by #) ND (<#)

NS = Not Sampled

= New York State Department of Environmental Conservation NYSDEC

PAHs = Polycyclic Aromatic Hydrocarbons

= Micrograms per Liter μg/L



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

Date:	10/21/2021	
Technician:	KL	

Time: 8:00
Weather: Partly Cloudy 55

Site Controls										
Fence Condition	GOOD	F۸	ΝR	DAMAGED	COMMENTS:					
Front Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:					
Rear Man Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:					
Padlock-NG	OPERATIONAL		NON-OPERATIONAL		COMMENTS:					

	General Site Conditions										
Condition of Parking area	GOOD	FAIR PC		POOR	COMMENTS:						
Evidence of any Intrusive Activities	NONE	MINOR SIG		SIGNIFICANT	COMMENTS:						
Vegetative Growth	GOOD	FAIR PO		POOR	COMMENTS:						
Conditions of the Site Trees	GOOD	FA	NR	POOR	COMMENTS:						
Agricultural or Vegetable Gardens	YES			NO	COMMENTS:						
Site Been Mowed	YES			NO	COMMENTS:						
Evidence of Vandalism	YES	NO		NO	COMMENTS:						
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:						

Is the site being used in a manner inconsistant with Environmental Easement?

Site Monitoring Wells					
Well ID.	Well ID. Location Secure				
MW-02R	Yes	No			
MW-03	Yes	No			
MW-06	Yes	No			
MW-07	Yes	No			
MW-08R	Yes	No			
MW-13	Yes	No			

### General Comments:

Someone ran into the fence on the East State Street site. Bend 1 pole. Site is secure. Brady Fence had made the repairs.

Date:	7/1/2021	
Technician:	KL	

Time: 11:30
Weather: Partly Cloudy 73

Site Controls							
Fence Condition	GOOD	FA	JR	DAMAGED	COMMENTS: see below		
Front Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:		
Rear Man Gate Condition	GOOD	FA	.IR	DAMAGED	COMMENTS:		
Padlock-NG	OPERATIONAL NON-C		OPERATIONAL	COMMENTS:			

General Site Conditions						
Condition of Parking area	GOOD	FA	ΝR	POOR	COMMENTS:	
Evidence of any Intrusive Activities	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:	
Vegetative Growth	GOOD FA		ΝR	POOR	COMMENTS:	
Conditions of the Site Trees	GOOD FA		ΝR	POOR	COMMENTS:	
Agricultural or Vegetable Gardens	YES			NO	COMMENTS:	
Site Been Mowed	YES			NO	COMMENTS:	
Evidence of Vandalism	YES			NO	COMMENTS:	
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:	

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells						
Well ID.	Well ID. Location Secure					
MW-02R	Yes	No				
MW-03	Yes	No				
MW-06	Yes	No				
MW-07	Yes	No				
MW-08R	Yes	No				
MW-13	Yes	No				

### General Comments:

Someone ran into the fence on the East State Street site. Bend 1 pole. Site is secure. Will get Brady Fence to make repair.

Date:	4/22/2021	
Technician:	PL	

 Time:
 8:30

 Weather:
 Snow 35

Site Controls						
Fence Condition	GOOD	F.A	ΝR	DAMAGED	COMMENTS:	
Front Gate Condition	GOOD	FA	ΝR	DAMAGED	COMMENTS:	
Rear Man Gate Condition	GOOD	FA	ΝR	DAMAGED	COMMENTS:	
Padlock-NG	OPERATIONAL NON-C		OPERATIONAL	COMMENTS:		

General Site Conditions						
Condition of Parking area	GOOD FAIR		ΝR	POOR	COMMENTS:	
Evidence of any Intrusive Activities	NONE	MINOR		SIGNIFICANT	COMMENTS:	
Vegetative Growth	GOOD	FAIR		POOR	COMMENTS:	
Conditions of the Site Trees	GOOD	FAIR		POOR	COMMENTS:	
Agricultural or Vegetable Gardens	YES	YES		NO	COMMENTS:	
Site Been Mowed	YES	YES		NO	COMMENTS:	
Evidence of Vandalism	YES	3		NO	COMMENTS:	
Litter	NONE	MINOR		SIGNIFICANT	COMMENTS: cleaned up litter	

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No

Site Monitoring Wells						
Well ID.	Well ID. Location Secure					
MW-02R	Yes	No				
MW-03	Yes	No				
MW-06	Yes	No				
MW-07	Yes	No				
MW-08R	Yes	No				
MW-13	Yes	No				

**General Comments:** 

Date:	1/14/2021	
Technician:	AJ	

Time: 8:00
Weather: Cloudy 29

		Site	Contr	ols	
Fence Condition	GOOD	F.A	ΝR	DAMAGED	COMMENTS:
Front Gate Condition	GOOD	F.A	ΝR	DAMAGED	COMMENTS:
Rear Man Gate Condition	GOOD	FA	ΝR	DAMAGED	COMMENTS:
Padlock-NG	OPERATIO	NAL	NON-0	OPERATIONAL	COMMENTS:

	Gei	neral S	Site Co	nditions	
Condition of Parking area	GOOD	FA	ΝR	POOR	COMMENTS:
Evidence of any Intrusive Activities	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:
Vegetative Growth	GOOD	FΑ	ΝR	POOR	COMMENTS:
Conditions of the Site Trees	GOOD	FA	ΝR	POOR	COMMENTS:
Agricultural or Vegetable Gardens	YES			NO	COMMENTS:
Site Been Mowed	YES			NO	COMMENTS:
Evidence of Vandalism	YES			NO	COMMENTS:
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monit	oring Wells	
Well ID.	Locatio	n Secure
MW-02R	Yes	No
MW-03	Yes	No
MW-06	Yes	No
MW-07	Yes	No
MW-08R	Yes	No
MW-13	Yes	No

**General Comments:** 



### **Appendix B – Well Sampling Field Data**



## CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Secti	ion A Ired Clent Information.	Section B Required Project Information:			Section																		-		
-	any: GES - Syracuse	Report To: Devin Shay (GES)				Information:	Payable via	email at ges-ir	aval6														Pag	6;	1 of 1
Addre	ss: 5 Technology Place, Suite 4	dshay@gesonline.com Report To: Tim Beaumont (GE	0.								a com									R	REGUL	ATOR	Y AGE	VCY	A C/486
_	Syracuse, New York 13057	tbeaumont@geconline.com	8)					& Environmenta								- N	IPDES	_	GRO	100	VATER	121	RINKING		
					Address	5 Technolo	gy Place, St	uite 4. East Syr.	acuse, N	Y 13057				-		F- (	JST		RCRA					WAIER	
_	To. dshay@gesonline.com	Purchase Order No :		-	Pace Qu	ote Referen	ice:								$\dashv$		No.	District to					THER		
Phone x4051	: 800.220.3069 Fax: None	Project Name: National Grid - II East Street, Ilion NY	lion		Pace Pro	ject Manage	er: Rachel C	hristner		-					-			SIT	E						1 F 3
Reque	sted Due Date/TAT: Standard	Project Number:	-		Pace Pro	file #*		Comi	A	1.014					_	LOC	CATIC	N			НС	S	c F	л п	THER
	Section D	0603200-133570-221-1106	_	_	race Pro	me #.		Semi-	Annua	ii GWS	5					Filtered	4 (Y/N)					77	77	11	1///
ITEM #	Section D Required Client Information  SAMPLE ID  One Character per box. (A-Z. 0-9 f).  Samples IDs MUST BE UNIQUE	CATES	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	sister dan e	BYANT	Ghat		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	npreserved		eserve	5.	Aethanol	Reques Analysi	is:								Pace Project
1	MW-02R-042	>1	1	+	DATE	TIME	DATE	TIME		-	5	H NH	E LO	Na.	Meth		1	5/3	3/3/	1/		//			Number Lab I.D.
2	MW-03-042		WT				4/33.17	10935		6	2		3 1				3								
3	MW-06-042		WT	1				1205		6	2	$\perp$	3 1	Ш			3	2	1						
4			WT	G				1025		e	2		3 1				3	2	1				1		
322	MW-06-MS-04		WT	G				1025		6	2		3 1				3	2	1	$\top$		$\forall$	_		
5	MW-06-MSD-0		WT	G				1025		6	2		3 1				3		1	++	$\vdash$	+	+		
6	MW-07-0421	1	WT	G			1	1/20		6	2	$\top$	3 1				3	1-	1	++	+	H	+-		
7	MW-08R-042	1	WT	G				1250		0	2	$\top$	3 1	$\Box$	$\top$		-	+-	-	++	+	$\vdash$	+		
8	MW-13-0421		WT	G			8	1355		6	2		3 1			_	3	2.	1	++	-	+	╀		
9	FD-0421		WT	G				1		6	2	11		$\vdash$	+	-	3		1	++	+	$\vdash$	_		
10	Trip Blanks		WT				1				2	1	3 1	$\vdash$	+	-	3	2	1	+	+	1	_		
11				Ť						3	-	++	3	$\vdash$	-		3	$\sqcup$		$\perp$					
12								-			_	+-	+	$\sqcup$				Ш							
13				-			<u> </u>	-				11	4	Ш		1									
Addition	nal Comments:	1	DC.	NOVE											1	//									
	.ES WILL ARRIVE IN	COOLERS.	REL			AFFILIATIO	N	DATE	TIME	ACCEP	TEO 6	Y/AFF	ILIATIO	NC				D	ATE	TI	ME	SAMP	LE CO	NDITION	NS
O'AIVII L	LES WILL ARRIVE IN	J	_	10%	1 29	5-		4/20/21	1547	00	1/1	0		40	//			41	126	150	47		Z.	Z X	Y.N.
										- 0,			1		11			1	1	1"			N.	N/A	X. X.
28.08														1				_	-	+	-		X.		
NEReg	ion@gesonline.com, ges@equisonline.com	<u>m</u>									10.0			· C				-		-	-+			7	Z Z
			income tile			SAMPLER	NAME AND	SIGNATURE	e de la constante de la consta				1281	4	£ 7/2	The world	SEU DE		No.				Z }	× ×	X.
	FIC EDD NAME:				f	PINT Name of	SALPLER .	Petel E	- 6.	12	Editor	REL DE		1000	551111		A KOM					o u	o pe	ybo 2006	Intac
NGIlio	n-labnumber.28351.EQEDD.zip				ľ	SIGNATURE of	SAMPLER /	Det 2	1				CATE	8 gred	249	77/3	1					Temp in	Received	Custody Sealed Cooler	amples Intact

PL

National Grid First Street Ilion, New York

Well ID	Sample?	Well Size	DTW	DTP	DTB	Comments
MW-02R	Yes	2"	12.75	_	18.30	Field Duplicate
MW-03	Yes	2"	6.02		27.25	Field Duplicate
MW-06	Yes	2"	17.63	_	28.60	MS/MSD
MW-07	Yes	2"	8.71	_	16.87	
MW-08R	Yes	2"	10.02	- CARROLL STATE OF THE STATE OF	20.20	
MW-13	Yes	2"	6.55	1	23.82	

**DTW** -depth to water

**DTP** -depth to product

**DTB** -depth to bottom

C	. 0	,				111/11		
Sampling Pe	ersonnel:	ker Lyon			Date: 4		,	
Job Number	: 0603200-	133570-221			Weather:		V500	
Well Id.	MW-02R				Time In:	0900	Time Out	: 0950
Well In	formation`	_						
			TOC	Other	Well Type	: Flus	shmount	Stick-Up
Depth to Wa	ter:	(feet)	12.75		Well Lock		Yes	No
Depth to Bot		(feet)	18.30			Point Marked:	Yes	No
Depth to Pro		(feet)			Well Mate			her:
Length of Wa		(feet)	5.55		Well Diam		2" X Ot	her:
Volume of W		(gal)	. 88		Comment	S:		
Three Well V	/olumes:	(gal)	2.66					
							A A 1147	
D	l - f t'							
Purging I	Information	-					Conversion I	Tootoro
Dunning Math	d		er Peristaltio	C	os Pump		1" ID 2" ID	4" ID 6" ID
Purging Meth Tubing/Bailer		Baile Teflor			vethylene	gal/ft.	1 10 2 10	4 10 0 10
Sampling Me		Baile			os Pump	water	0.04 0.16	0.66 1.47
Average Pun			2 00	Oranai	os i dilip		on=3.785L=3785r	
Duration of P		(min)	50				0.1 0.1 002 07 001	100,00,111
Total Volume		(gal)		id well go dry?	Yes No	X		
Horiba U-52	Water Quality	weter Usea?	res					
п =	DTW	T =====	T	I OPP		Tub i dit. :	DO	TDS
Time	DTW	Temp (°C)	pН	ORP (mV)	Conductivity (mS/cm)	Turbidity	111-0-0000000	
0905	(feet)	` '	7 2 )	<del></del>		(NTU)	(mg/L)	(g/L)
0905	13.12	8.65	7.22	-115	1.02	13.1	• 93	.653
07/0	13.12	8.65	7.18	-115	1.02	13.1 21.1	•93 0.00	.653 .656
0715	13.12 13.40 13.82	8.65 8.43 8.30	7.18	-115° -118 -120	1.02 1.02 1.01	13.1 21.1 26.9	0.00 0.00	.653 .650 .647
0710	13.12 13.40 13.82 14.42	8.65 8.43 8.30 7.35	7.18 7.18 2,18	-115° -118 -120 -122	1.02 1.02 1.01 1.01	13.1 21.1 26.9 21.6	0.00 0.00 0.00	.653 .655 .647 .643
0715 0715 0920 0925	13.12 13.40 13.82 14.42 14.53	8.65 8.43 8.30 7.35 8.26	7.18 7.18 2.18 7.19	-115° -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.01	13.1 21.1 26.9 21.6 18.0	0.00 0.00 0.00 0.00	.653 .655 .647 .643 .646
0710 0715 0720 0725 0730	13.12 13.40 13.82 14.42 14.53 14.28	8.65 8.43 8.30 7.35 8.26 8.33	7.18 7.18 2,18 7.19 7.19	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01	13.1 21.1 26.9 21.6	0.00 0.00 0.00	.653 .655 .655 .647 .643 .645
0715	13.12 13.40 13.82 14.42 14.53	8.65 8.43 8.30 7.35 8.26	7.18 7.18 2.18 7.19	-115° -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.0]	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .647 .643 .646
0710 0715 0720 0725 0725	13.12 13.40 13.82 14.42 14.53 14.28	8.65 8.43 8.30 7.35 8.26 8.33	7.18 7.18 2,18 7.19 7.19	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.0]	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .655 .647 .643 .645
0710 0715 0720 0725 0730	13.12 13.40 13.82 14.42 14.53 14.28	8.65 8.43 8.30 7.35 8.26 8.33	7.18 7.18 2,18 7.19 7.19	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.0]	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .655 .647 .643 .645
0710 0715 0720 0725 0730	13.12 13.40 13.82 14.42 14.53 14.28	8.65 8.43 8.30 7.35 8.26 8.33	7.18 7.18 2,18 7.19 7.19	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.0]	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .655 .647 .643 .645
0710 0715 0720 0725 0730	13.12 13.40 13.82 14.42 14.53 14.28	8.65 8.43 8.30 7.35 8.26 8.33	7.18 7.18 2,18 7.19 7.19	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.0]	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .655 .647 .643 .645
0710 0715 0720 0725 0730	13.12 13.40 13.82 14.42 14.53 14.28 15.21	8.65 8.43 8.30 7.35 8.26 8.33	7.18 7.18 2,18 7.19 7.19	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.0]	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .655 .647 .643 .645
0710 0715 0720 0725 0730 0735	13.12 13.40 13.82 14.42 14.53 14.28 15.21	8.65 8.43 8.30 7.35 8.26 8.33	7.18 7.18 2,18 7.19 7.19	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.0]	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .655 .647 .643 .645
07/0 07/5 07/20 09/25 09/35 09/35	13.12 13.40 13.82 14.42 14.53 14.28 15.21	8.65 8.43 8.30 7.35 8.26 8.33 8.38	7.18 7.18 2.18 7.19 7.19 7.18	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.01 1.01	13.1 21.1 26.9 21.6 18.0 14.5	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .647 .643 .645 .645 .644
07/0 07/5 07/20 09/25 09/30 09/35	13./2 13.40 13.82 14.43 14.53 14.28 15.31	8.65 8.73 8.30 7.35 8.26 8.33 8.38	7.18 7.18 2.18 7.19 7.19 7.18	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.01 1.01	13.1 21.1 26.9 21.6 18.0 14.5 16.1	93 0.00 0.00 0.00 0.00 0.00	.653 .655 .647 .643 .645 .645 .645
97/0 07/5 09/20 09/35 09/30 09/35 EPA SW-84 EPA SW-84	13./2 13.40 13.82 14.42 14.28 15.21	8.65 8.73 8.30 7.35 8.26 8.33 8.38	7.18 7.18 2.18 7.19 7.19 7.18 PAH's	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.01 1.01	13,1 21.1 26.9 21.6 18.0 14.5 16.1	93 0.00 0.00 0.00 0.00 0.00 0.00 ers Yes s Yes	.653 .655 .647 .643 .645 .645 .645
97/0 07/5 09/20 09/35 09/30 09/35 EPA SW-84 EPA SW-84	13./2 13.40 13.40 13.82 14.43 14.38 15.31	8.65 8.73 8.30 7.35 8.26 8.33 8.38 8.00	7.18 7.18 2.18 7.19 7.19 7.18 PAH's	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.01 1.01	13,1 21,1 26,9 21,6 18,0 14,5 16,1 4-100 ml amb 6-40 ml vial 2-250 ml plas	93 0.00 0.00 0.00 0.00 0.00 0.00 vers Yes s Yes stic Yes	.653 .655 .647 .643 .645 .645 .644 No
07/0 07/5 09/20 09/35 09/30 09/35 EPA SW-84 EPA SW-84	13./2 13.40 13.40 13.82 14.43 14.38 15.31	SVOC I VOC's Total Cy	7./8 7./8 2,/8 7./9 7./9 7./8	-115" -118 -120 -122 -122	1.02 1.02 1.01 1.01 1.01 1.01	13,1 21.1 26.9 31.6 18.0 14.5 16.1 4-100 ml amb 6-40 ml vial 2-250 ml plas	ers Yes stic Yes	.653 .655 .647 .643 .645 .645 .645 .645 .699
97/5 97/5 97/5 97/5 97/5 97/5 97/5 97/5	13./2 13. 40 13. 40 13. 82 14. 43 14. 28 15.31 15.31 46 Method 8270 46 Method 8260 46 Method 9012	SVOC I VOC'S Total Cy FD-0421	PAH's BTEX vanide uplicate?	-115° -118 -120 -122 -121 -119	1.02 1.02 1.01 1.01 1.01 1.01	13,1 21.1 26.9 31.6 18.0 14.5 16.1 4-100 ml amb 6-40 ml vial 2-250 ml plas	93 0.00 0.00 0.00 0.00 0.00 0.00 vers Yes s Yes stic Yes	.653 .655 .647 .643 .645 .645 .645 .645 .699

Sambling Pel	rsonnel: Pek	erLyon			Date: 4	122/21		1100 40
Job Number:		133570-221			Weather:	Sun/500	340	
Well Id.	MW-03	1000,0 22,		31		1130	Time Out	1210
vveii ia.	14144-02				Time in.		Timo Out	1010
Woll Int	formation							
- vven inii	Offiation	- · · · ·	TOC	Other	Well Type	· Flus	shmount	Stick-Up
Depth to Wat	er.	(feet)	6.02	Other	Well Lock		Yes	No
Depth to Bott		(feet)	27.25			Point Marked:	Yes	No
Depth to Prod		(feet)	_		Well Mate			her:
Length of Wa			21.23		Well Diam	eter: 1"	2" XOti	her:
Volume of W		(gal)	3.39	¥	Comments	s:		
Three Well V		(gal)	10.19	×				
Purging I	nformation							
	Marie do 1991 - Japan	•		·	_		Conversion F	actors
Purging Meth	od:	Baile	r Peristaltic	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer	Material:	Teflor	Stainless St.	Poly	ethylene	of		
Sampling Me	thod:	Baile	r Peristaltic	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pum	nping Rate:	(ml/min)	200			1 gall	on=3.785L=3785n	nL=1337cu. feet
Duration of P	umping:	(min)	30					
Total Volume	Removed:	(gal)	D	id well go dry?	Yes No	X		
Horiba U-52 \	Water Quality	Meter Used?	Yes	No				
					-			
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1/35	6.05	9.15	2.56	-70	1.09	5,2	0,00	-674
1140	6,02	9.31	8.51	-54	1.08	2.4	0,00	. 689
1145	6,03	9.25	8.12	-39	1.07	2.8	0.00	.688
1150		9.18	8.25	-28	1.08	21	0.00	100
	6.00		0.00		11-0	2.1		.688
	6.03	9.19	8.05	-21	1.07	2.3	0.00	-685
1155	6.03	9.19			1.07	2.3	0.00	-685
	6.03		8.05	-21	1.07	2.3	0.00	-685
1155	6.03	9.19	8.05 2.94	-21 -15	1.07	2.3	0.00	-685
1155	6.03	9.19	8.05 2.94	-21 -15	1.07	2.3	0.00	-685
1155	6.03	9.19	8.05 2.94	-21 -15	1.07	2.3	0.00	-685
1155	6.03	9.19	8.05 2.94	-21 -15	1.07	2.3	0.00	-685
1155	6.03 6.03 6.03	9.19	8.05 2.94	-21 -15	1.07	2.3	0.00	-685
1155	6.03 6.03 6.03	9.19	8.05 2.94	-21 -15	1.07	2.3	0.00	-685
1155	6.03 6.03 6.03	9.19	8.05 2.94	-21 -15	1.07	2.1	0.00	-685 -686 -689
1155 1200 1205	6.03 6.03 6.03	9.19 9.20 9.23	8.05 2.94 2.89	-21 -15	1.07	2.3 2.1 2.0	0.00 0.00 0.00	-685 -686 -684
Sampling Inf	6.03 6.03 6.03	9.19 9.20 9.23	8.05 2.94 2.89	-21 -15	1.07	2 - 100 ml amb 3 - 40 ml via	O. OO O. OO O. Series Yes	-685 -686 -684
Sampling Inf EPA SW-84 EPA SW-84	6.03 6.03 6.03 6.03 formation:	9.19 9.20 9.23 SVOC F	2.94 2.89 PAH's	-21 -15	1.07	2.3 2.1 2.0	O. OO O. OO O. Series Yes	-685 -686 -684
Sampling Inf  EPA SW-84  EPA SW-84  EPA SW-84	6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.03	9. /9 9. 20 9. 23 SVOC F VOC's E Total Cy	2.94 2.89 2.89	-21 -15 -10	1.07	2 - 100 ml amb 3 - 40 ml via 1 - 250 ml plas	oers Yes	-685 -686 -684 No No No
Sampling Inf  EPA SW-84  EPA SW-8-  EPA SW-8-  Sample ID:	6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.03	9. / 9 9. 20 9. 23 SVOC F VOC's E Total Cy	PAH's BTEX ranide	-21 -/5 -/0	1.07	2 - 100 ml amb 3 - 40 ml via 1 - 250 ml plas pped: Pa	oers Yes stic Yes ace Courier Pick	-685 -686 -684 -684
Sampling Inf  EPA SW-84  EPA SW-84  EPA SW-84	6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.03	9. / 9 9. 20 9. 23 SVOC F VOC's E Total Cy	PAH's BTEX ranide applicate?	-21 -15 -10	1.07	2 - 100 ml amb 3 - 40 ml via 1 - 250 ml plas pped: Pa	oers Yes	-685 -686 -684 -684
Sampling Inf  EPA SW-84  EPA SW-8-  EPA SW-8-  Sample ID:	6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.03	9. / 9 9. 20 9. 23 SVOC F VOC's E Total Cy	PAH's BTEX ranide	-21 -/5 -/0	1.07 1.07 1.07	2 - 100 ml amb 3 - 40 ml via 1 - 250 ml plas pped: Pa	oers Yes stic Yes ace Courier Pick	No No No No Center

Sampling Do	ersonnel: Put	1			Date: 4	/22/21		
		and the same of th		33			10	
Job Number	: 0603200-1	133570-221			Weather:	Sunny 3	1	
Well Id.	MW-06				Time In: ¿	2952	Time Out	: 1045
Well In	formation	_						
I	92501 II	702-70	TOC	Other	Well Type			Stick-Up
Depth to Wa		(feet)	17.63		Well Lock		Yes	No
Depth to Bot		(feet)	28.60			Point Marked:	Yes	No
Depth to Pro		(feet)			Well Mate			her:
Length of Wa			10.97		Well Diam		' 2"\_Oti	her:
Volume of W		(gal)	1.75		Comments	S:		
Three Well V	olumes:	(gal)	5,26			Western Dominion		
			A LA	1 T T T T T T T T T T T T T T T T T T T			-	
Purging	nformation						0	
		$\neg$		$\nabla$			Conversion F	
Purging Meth		Bailer			os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor			ethylene	of	0.04 0.16	0.66 1.47
Sampling Me		Bailer		Grundf	os Pump	water		0.66   1.47
Average Pun		(ml/min)	20			1 gall	on=3.785L=3785n	nL=1337cu. feet
Duration of P		(min)	30	Ω مام مام المدد المدد	Vaa 🗀 Nal	7		
Total Volume	Removed:	(gal)		oid well go dry?	Yes No	<del>A</del>		1
Horiba U-52	Water Quality I	Meter Used?	Yes	s No				
	200 0000 0000 0000000000000000000000000							
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
0955	17.73	8.22	7.91	-107	1,03	9.8	0.00	.660
1000	17.71	8:58	8.24	-90	1,17	3.3	0.00	e 750
1005	17.72	8.90	8.35	-69	1.35	2.6	0.00	-869
1010	17.72	8.97	8.22	-52	1.43	2.0	0.00	0916
1015	17.73	9,20	8.12	-44	1.42	2.0	0.00	-909
1020	17.23	9.31	7.26	-39	1.48	1.8	0.00	0974
1025	17.73	9.36	7.37	-32	1.59	1.5	0.06	1.01
Ц							<u> </u>	
g_ Apple to a						****		
Sampling In	formation:							
							966/76V	
Principles of the August Physics and	46 Method 8270	SVOC F				6 - 100 ml amb		
	46 Method 8260	VOC's E				9 - 40 ml vial		
EPA SW-8	46 Method 9012	Total Cy	anide			3 - 250 ml plas	stic Yes	× No L
	BA141 AA A	104	" ( )	,	01.		0 . 5	
Sample ID:	MW-06-04		The condition of the condition of	Yes No	Shi	*B.*DERROREN SS 1	ace Courier Pick	
		2 202	44050	.,   \ /				
Sample Time:	1025	MS	MSD?	Yes No No		Drop-of	f Albany Service	Center
Sample Time: Comments/N		MS	S/MSD?	Yes No No		Drop-ot Laboratory:	Pace Ana	

Sampling Pe	rsonnel: R	n hou			Date: 4/	22/21		
Job Number:		133570-221					340	2
	MW-07	100010 221		<del></del>	Time In:		Time Out:	1120
Well ld.	14144-07				Time in.	040	Time out.	1190
Well In	formation							
- ven ini	omation	-	TOC	Other	Well Type	· Flus	shmount	Stick-Up
Depth to Wat	er:	(feet)	8.71	Other	Well Lock		Yes	No No
Depth to Bott		(feet)	16.87			Point Marked:	Yes	No
Depth to Prod		(feet)	10.07		Well Mate		Ss Oth	ner:
Length of Wa		(feet)	8.16	***	Well Diam		2" Xoth	
Volume of W		(gal)	1.30		Comments	5:		
Three Well V		(gal)	3.91					
Purging I	nformation				***			
		•					Conversion F	actors
Purging Meth	od:	Baile	Peristaltio	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor	Stainless St	Poly	vethylene	of		
Sampling Me	thod:	Baile	Peristaltion	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pum	ping Rate:	(ml/min)	200			1 gall	on=3.785L=3785m	nL=1337cu, feet
Duration of P	umping:	(min)	30					
Total Volume	Removed:	(gal)		oid well go dry?	Yes No	Y		
Horiba II-52 \	Nater Quality I	Meter Used?	Ves	No		7		
11011ba 0-32 1	Quality I	vieter Osed:	1 63					
Time	DTW	Tomp	рН	ORP	Conductivity	Turbidity	DO	TDS
Time	(feet)	Temp (°C)	þΠ	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1050	9.29	8.42	8:13	-29	1.06	660	0.00	:659
1055	9.99	8.38	8,10	-38	1.00	730	0.00	643
1/00	10,16	8,25	7.95	-48	1.09	445	0.00	.697
1105	10,32	8.13	7.49	-55	1.21	191	0.00	1777
11/0	10,40	8.12	7.30	-58	1.33	35.8	0.00	.854
1115	10.43	8.16	2.55	-60	1,39	27.5	0.00	- 8.89
1120	10.43	8.20	2.82	-61	1.41	537	0.00	-904
1100			7.70					
Sampling Inf	ormation:							
FPA SW-84	16 Method 8270	SVOC F	PAH's			2 - 100 ml amb	ers Yes	No
020-5- 400 592000 0-0 1	46 Method 8260	VOC's E				3 - 40 ml vial		
	46 Method 9012					1 - 250 ml plas		
	TO IVIOLITION OF IZ	Total Oyl	211100					
Sample ID:	MW-07-04	<b>!21</b> Du	plicate?	Yes No X	Shi	pped: Pa	ace Courier Pick	up 🖂 📗
Sample Time:	1120			Yes No No			f Albany Service	
Comments/No	otes:					_aboratory:	Pace Ana Greensbu	

				1000	Parket In Contract of the Cont	1		
Sampling Pe	rsonnel: Pctu	u you			Date: 4/			
Job Number:	0603200-1	133570-221			Weather:	Sunny 3	60	
Well ld.	MW-08R				Time In:	and the second second	Time Out	1300
Well In	formation		1	Harris and the same of the sam	Alas y			
		•	TOC	Other	Well Type:	: Flus	shmount	Stick-Up
Depth to Wa	ter:	(feet)	10.02		Well Locke		Yes	No
Depth to Bot	tom:	(feet)	20.20		Measuring F	Point Marked:	Yes	No
Depth to Pro	duct:	(feet)			Well Mater			her:
Length of Wa	ater Column:	(feet)	10.19		Well Diam		2"_XOt	her:
Volume of W		(gal)	1.62		Comments	S:		
Three Well V	olumes:	(gal)	4.88					
Purging I	nformation							
	1000						Conversion F	
Purging Meth		Baile			os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor			ethylene X	of	0.04	0.00 4.47
Sampling Me		Baile		Grundf	os Pump	water	0.04 0.16	
Average Pun		(ml/min)	20			1 gall	on=3.785L=3785r	nL=1337cu. feet
Duration of P		(min)	30		v 🗀 u [	10		8
Total Volume	Removed:	(gal)		id well go dry?	Yes No	X		
Horiba U-52	Water Quality N	Meter Used?	Yes	No _				
L	7.00						1542	
Time	DTW	Temp	На	ORP	Conductivity	Turbidity	DO	TDS
Time	DTW (feet)	Temp (°C)	рН	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	60 00000	1
95 3000000	DTW (feet)	Temp (°C)	pH 8.13	ORP (mV) 47	Conductivity (mS/cm)	A CONTRACTOR OF THE PARTY OF TH	DO (mg/L) 8.87	TDS (g/L)
1220	(feet) 10.95	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1220	(feet) 10.95 11.61	(°C)	8.13 7.89	(mV)	(mS/cm) .838	(NTU) 44.0	(mg/L) 8.87	(g/L) -536
1220	(feet) 10.95	(°C) 8.40 8.44	8.13 7.89 7.76 7.63	(mV) 47 98	(mS/cm) -838 -827	(NTU) 44.0 27.4	(mg/L) 8.87 8.70	(g/L) -536- -529
1220 1225 1230	(feet) 10-95 11-61 12-25	(°C) 8.40 8.44 8.16	8.13 7.89 7.76 7.63 7.55	(mV) 47 98 140	(mS/cm) ,838 .827 .825 .824 .824	(NTU) 44.0 27.4 39.4 27.7 20.0	(mg/L) 8.87 8.70 7.24 6.30 4.89	(g/L) -536. -529 -527 -527 -526
1226 1235 1230 1235	(feet) 10.95 11.61 12.25 12.57 12.96 13.21	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) .838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7	(mg/L) 8.87 8.70 7.24 6,30	(g/L) -536 -529 -527
1226 1225 1230 1235 1246	(feet) 10.95 11.61 12.25 12.57 12.96	(°C) 8.40 8.44 8.16 8.29 8.37	8.13 7.89 7.76 7.63 7.55	(mV) 47 98 140 145	(mS/cm) ,838 .827 .825 .824 .824	(NTU) 44.0 27.4 39.4 27.7 20.0	(mg/L) 8.87 8.70 7.24 6.30 4.89	(g/L) -536. -529 -527 -527 -526
1220 1225 1230 1235 1246 1245	(feet) 10.95 11.61 12.25 12.57 12.96 13.21	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) .838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.36 4.87 4.79	(g/L) -536 -529 -527 -527 -526
1220 1225 1230 1235 1246 1245	(feet) 10.95 11.61 12.25 12.57 12.96 13.21	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) .838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.36 4.87 4.79	(g/L) -536 -529 -527 -527 -526
1220 1225 1230 1235 1246 1245	(feet) 10.95 11.61 12.25 12.57 12.96 13.21	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.36 4.87 4.79	(g/L) -536 -529 -527 -527 -526
1220 1225 1230 1235 1246 1245	(feet) 10.95 11.61 12.25 12.57 12.96 13.21	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.36 4.87 4.79	(g/L) -536 -529 -527 -527 -526
1220 1225 1230 1235 1246 1245	(feet) 10.95 11.61 12.25 12.57 12.96 13.21	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.36 4.87 4.79	(g/L) -536 -529 -527 -527 -526
1220 1225 1230 1235 1246 1245	(feet) 10.95 11.61 12.25 12.57 12.96 13.21 13.54	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.36 4.87 4.79	(g/L) -536 -529 -527 -527 -526
1226 1235 1230 1235 1246 1245 1250	(feet) 10.95 11.61 12.25 12.57 12.96 13.21 13.54	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.59 7.51	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.30 4.87 4.79 5.74	(g/L) -536. -529 -527 -526 -526 -524
1226 1235 1230 1235 1246 1245 1250	(feet) 10.95 11.61 12.25 12.57 12.96 13.21 13.54	(°C) 8.40 8.44 8.16 8.29 8.37 8.33	8.13 7.89 7.76 7.63 7.55 7.51 7.49	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821 .819	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4	(mg/L) 8.87 8.70 7.24 6.30 4.87 4.79 5.74	(g/L) -536 -529 -527 -527 -526
1226   1235   1230   1235   1246   1245   1250   Sampling In	(feet) 10.95 11.61 12.25 12.57 12.96 13.21 13.54	(°C) 8.40 8.44 8.16 8.29 8.37 8.33 8.43	8.13 7.89 2.76 7.63 7.55 7.51 7.49	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821 .819	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4 23.6	(mg/L) 8.87 8.70 7.24 6.30 4.89 4.79 5.74 ers Yes	(g/L) -536 -529 -527 -526 -526 -524
1226   1235   1230   1235   1240   1245   1250   Sampling In	(feet)   10.95"   11.61   12.25"   12.57   12.96   13.21   13.57   13.57   13.67	(°C) 8.70 8.44 8.16 8.29 8.37 8.33 8.43	8.13 7.89 7.63 7.63 7.55 7.51 7.49	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821 .819	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4 23.6	(mg/L)  8.87  8.70  7.24  6.30  4.87  4.79  5.74  ers Yes  yes	(g/L) -536 -529 -527 -526 -526 -524
1226   1235   1230   1235   1240   1245   1250   Sampling In	(feet)  0.95"  1.6   2.25"  2.57"  2.96"  3.21"  13.5"   formation:  46 Method 8270 46 Method 8260	(°C) 8.70 8.44 8.16 8.29 8.37 8.33 8.43	8.13 7.89 7.63 7.63 7.55 7.51 7.49	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821 .819	(NTU) 44.0 27.4 39.4 27.7 20.0 61.4 23.6  2 - 100 ml amb 3 - 40 ml vial	(mg/L)  8.87  8.70  7.24  6.30  4.87  4.79  5.74  ers Yes  yes	(g/L) -536529 -529 -529 -526 -526 -524
1226   1235   1230   1235   1240   1245   1250   Sampling In	(feet)  0.95"  1.6   2.25"  2.57"  2.96"  3.21"  13.5"   formation:  46 Method 8270 46 Method 8260	(°C) 8.70 8.44 8.16 8.29 8.37 8.33 8.43  SVOC F VOC's I Total Cy	8.13 7.89 2.76 7.63 7.55 7.51 7.49 PAH's BTEX ranide	(mV) 47 98 140 145 175 203	(mS/cm) ,838 .827 .825 .824 .823 .821 .819	(NTU) 44.0 27.4 39,4 27.7 20.0 61.4 23.6 2 - 100 ml amb 3 - 40 ml vial 1 - 250 ml plas	(mg/L)  8.87  8.70  7.24  6.30  4.87  4.79  5.74  ers Yes  yes	(g/L) -536 -529 -527 -527 -526 -526 -524
1226   1235   1230   1235   1246   1245   1250   Sampling In	(feet)  0.95"  1.6   2.25  2.57  2.96  3.2   3.57  3.57  46 Method 8270 46 Method 8260 46 Method 9012	(°C) 8.70 8.44 8.76 8.37 8.33 8.43  SVOC F VOC's I Total Cy	8. /3 7. 89 7. 76 7. 63 7. 59 7.51 7. 49  PAH's BTEX ranide	(mV) 97 98 140 145 175 203 217	(mS/cm) ,838 .827 .825 .824 .823 .821 .819	(NTU)  44.0  27.4  39.4  27.7  20.0  61.4  23.6  2 - 100 ml amb  3 - 40 ml vial  1 - 250 ml plas  pped: Pa	(mg/L)  8.87  8.70  7.24  6.30  4.87  4.79  5.74  ers Yes s Yes tic Yes	(g/L) -536529 -527 -526 -526 -526 -526 -527
1226   1235   1230   1235   1240   1245   1250   Sampling In   EPA SW-8   EPA SW-8   EPA SW-8	(feet)   10.95"   11.61   12.25"   12.57   12.96   13.21   13.54   13.54   13.54   14.66 Method 8270   46 Method 8260   46 Method 9012   MW-08R-0	(°C) 8.70 8.44 8.76 8.37 8.33 8.43  SVOC F VOC's I Total Cy	8. /3 7. 89 7. 76 7. 63 7. 59 7.51 7. 49  PAH's BTEX ranide	(mV) 97 98 140 145 175 203 217	(mS/cm) ,838 .827 .825 .824 .823 .821 .819	(NTU)  44.0  27.4  39.4  27.7  20.0  61.4  23.6  2 - 100 ml amb  3 - 40 ml vial  1 - 250 ml plas  pped: Pa	ers Yes sice Courier Pick	(g/L) -536 -529 -527 -526 -526 -526 -526 -527

					111	1		
Sampling Per	rsonnel: Peter	Lyon			Date: 4	22/21		
Job Number:	0603200-1	33570-221			Weather:	Cloudy =	35 <sup>6</sup>	
Well Id.	MW-13				Time In:	1320	Time Out	: 1400
				California (California (Califo				
Well Inf	formation							
			TOC	Other	Well Type			Stick-Up
Depth to Wat		(feet)	6.55		Well Locke		Yes	No
Depth to Bott		(feet)	23.82		7-17-17-17-17-17-17-17-17-17-17-17-17-17	Point Marked: rial:	Yes	No
Depth to Prod		(feet)	17 27		Well Mate Well Diam			her: her:
Length of Wa		(feet) (gal)	2,76		Comments			ner.
Three Well V		(gal)	8.28		Commone			
111100 11011 1	olamoo.	(94.7	0.0-					
Purging I	nformation	2	mark to be a second to			Se60.0000 19.000		
							Conversion I	
Purging Meth	iod:	Bailer	Peristaltic	Grund	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer	Material:	Teflon			yethylene X	of		
Sampling Me	thod:	Bailer	Peristaltic	Grund	os Pump	water	0.04 0.16	
Average Pum	ping Rate:	(ml/min)	200			1 gall	on=3.785L=3785r	nL=1337cu. feet
Duration of P	umping:	(min)	30					
Total Volume	Removed:	(gal)	D	id well go dry?	Yes No	X		
Horiba U-52 \	Water Quality N	Meter Used?	Yes	No				
,,,,,,,,								
Time	DTW	Temp	На	ORP	Conductivity	Turbidity	DO	TDS
Time	DTW (feet)	Temp (°C)	рН	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	10.50 M 10.50 M	TDS (g/L)
	(feet)	(°C)		ORP (mV)	(mS/cm)	(NTU)	DO (mg/L)	AL PROPERTY OF
1325	(feet)	(°C) 9.63	pH 237 7.34	(mV) 2/8			(mg/L)	(g/L)
1325	(feet) 6.98 7.00 7.00	(°C)	7.37	(mV)	(mS/cm) 1, 43 1,52	(NTU) 21,8	(mg/L)	(g/L) 975 972 970
/325 /330 /335	(feet) 6.98 7.00 7.00	(°C) 9.63 9.92 9.91	7.37 7.34 7.39 7.37	(mV) 218 198 179 166	(mS/cm) 1, 43 1, 52 1, 52 1,53	(NTU) 21.8 13.9	(mg/L) 0.00	(g/L) -975 -972 -970
1325	(feet) 6,98 7,00	(°C) 9.63 9.92	7.37 7.34 7.39 7.37 7.36	(mV) 2/8 /98 /79	(mS/cm) 1, 43 1,52 1,52 1,52 1,52	(NTU) 21.8 13.9 10.3 6,6 3.9	(mg/L) 0.00 0.00	(g/L) 975 972 970 971 972
1325 1330 1335 1340	(feet) 6.98 7.00 7.00 7.00 7.00 7.00	(°C) 9.63 9.92 9.91 10.00 9.97 10.04	7.37 7.34 2.39 7.37 7.36 7.21	(mV) 218 198 179 166	(mS/cm) 1, 43 1, 52 1, 52 1, 52 1, 52 1, 53	(NTU) 21.8 13.9 10.3 6,6	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) -9/5 -972 -970 -971 -972 -977
1325 1330 1335 1340 1345	(feet) 6.98 7.00 7.00 7.00 2.00	(°C) 9.63 9.92 9.91 10.00 9.97	7.37 7.34 7.39 7.37 7.36	(mV) 218 198 179 166 155	(mS/cm) 1, 43 1,52 1,52 1,52 1,52	(NTU) 21.8 13.9 10.3 6,6 3.9	(mg/L) 0,00 0,00 0,00 0,00 0,00	(g/L) 975 972 970 971 972
1325 1330 1335 1340 1345 1350	(feet) 6.98 7.00 7.00 7.00 7.00 7.00	(°C) 9.63 9.92 9.91 10.00 9.97 10.04	7.37 7.34 2.39 7.37 7.36 7.21	(mV) 218 198 179 166 155	(mS/cm) 1, 43 1, 52 1, 52 1, 52 1, 52 1, 53	(NTU) 21,8 13,9 10.3 6,6 5,9 4,5	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) -9/5 -972 -970 -971 -972 -977
1325 1330 1335 1340 1345 1350	(feet) 6.98 7.00 7.00 7.00 7.00 7.00	(°C) 9.63 9.92 9.91 10.00 9.97 10.04	7.37 7.34 2.39 7.37 7.36 7.21	(mV) 218 198 179 166 155	(mS/cm) 1, 43 1, 52 1, 52 1, 52 1, 52 1, 53	(NTU) 21,8 13,9 10.3 6,6 5,9 4,5	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) -9/5 -972 -970 -971 -972 -977
1325 1330 1335 1340 1345 1350	(feet) 6.98 7.00 7.00 7.00 7.00 7.00	(°C) 9.63 9.92 9.91 10.00 9.97 10.04	7.37 7.34 2.39 7.37 7.36 7.21	(mV) 218 198 179 166 155	(mS/cm) 1, 43 1, 52 1, 52 1, 52 1, 52 1, 53	(NTU) 21,8 13,9 10.3 6,6 5,9 4,5	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) -9/5 -972 -970 -971 -972 -977
1325 1330 1335 1340 1345 1350	(feet) 6.98 7.00 7.00 7.00 7.00 7.00	(°C) 9.63 9.92 9.91 10.00 9.97 10.04	7.37 7.34 2.39 7.37 7.36 7.21	(mV) 218 198 179 166 155	(mS/cm) 1, 43 1, 52 1, 52 1, 52 1, 52 1, 53	(NTU) 21,8 13,9 10.3 6,6 5,9 4,5	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) -9/5 -972 -970 -971 -972 -977
1325 1330 1335 1340 1345 1350 1355	(feet) 6.98 7.00 7.00 7.00 7.00 7.00 7.00 7.00	(°C) 9.63 9.92 9.91 10.00 9.97 10.04	7.37 7.34 2.39 7.37 7.36 7.21	(mV) 218 198 179 166 155	(mS/cm) 1, 43 1, 52 1, 52 1, 52 1, 52 1, 53	(NTU) 21,8 13,9 10.3 6,6 5,9 4,5	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) -9/5 -972 -970 -971 -972 -977
1325 1330 1335 1340 1345 1350	(feet) 6.98 7.00 7.00 7.00 7.00 7.00 7.00 7.00	(°C) 9.63 9.92 9.91 10.00 9.97 10.04	7.37 7.34 2.39 7.37 7.36 7.21	(mV) 218 198 179 166 155	(mS/cm) 1, 43 1, 52 1, 52 1, 52 1, 52 1, 53	(NTU) 21,8 13,9 10.3 6,6 5,9 4,5	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) -9/5 -972 -970 -971 -972 -977
1325 1330 1335 1340 1345 1350 1355	(feet) 6,98 7,00 7,00 2,00 2,00 2,00 6ormation:	(°C) 9.63 9.92 9.91 10.00 9.97 10.04 9.98	7.37 7.34 2.39 7.37 7.36 7.22 2.29	(mV) 218 198 179 166 155	(mS/cm) 1. 43 1.52 1.52 1.53 1.53 1.52	(NTU) 21,8 13,9 10.5 6,6 5,9 4,5 4.0	(mg/L)  0.00  0.00  0.00  0.00  0.00  6.00	(g/L) -975 -972 -971 -977 -977 -978
1325   1330   1335   1340   1345   1350   1355   Sampling Inf	(feet) 6.98 7.00 7.00 7.00 7.00 7.00 7.00 6ormation:	(°C) 9.63 9.92 9.91 10.00 9.97 10.04 9.98	7.37 7.34 2.39 7.37 7.36 7.21 2.29	(mV) 218 198 179 166 155	(mS/cm) 1. 43 1.52 1.52 1.53 1.53 1.52	(NTU) 21,8 13,9 10.5 6,6 5,9 4,5 4.0	(mg/L)  0.00  0.00  0.00  0.00  0.00  6.00	(g/L) -9/5 -972 -972 -977 -977 -978
1325   1330   1335   1340   1345   1350   1355   Sampling Inf	(feet) 6,98 7,00 7,00 2,00 2,00 2,00 3,00 6ormation: 46 Method 8270 46 Method 8260	(°C) 9.63 9.92 9.91 10.00 9.97 10.04 9.98	7.37 7.39 7.39 7.37 7.32 7.21 2.29	(mV) 218 198 179 166 155	(mS/cm) 1. 43 1.52 1.52 1.53 1.53 1.52	(NTU) 21.8 13.7 10.5 6.6 3.9 4.0 2 - 100 ml amb 3 - 40 ml vial	(mg/L)  0,00  0,00  0,00  0,00  6.00  ers Yes  Yes	(g/L) -975 -972 -977 -977 -978
1325   1330   1335   1340   1345   1350   1355   Sampling Inf	(feet) 6.98 7.00 7.00 7.00 7.00 7.00 7.00 6ormation:	(°C) 9.63 9.92 9.91 10.00 9.97 10.04 9.98	7.37 7.39 7.39 7.37 7.32 7.21 2.29	(mV) 218 198 179 166 155	(mS/cm) 1. 43 1.52 1.52 1.53 1.53 1.52	(NTU) 21,8 13,9 10.5 6,6 5,9 4,5 4.0	(mg/L)  0,00  0,00  0,00  0,00  6.00  ers Yes  Yes	(g/L) -975 -972 -971 -972 -977 -978
1325   1330   1335   1340   1345   1350   1355   1355   Sampling Inf	(feet) 6,98 7,00 7,00 7,00 7,00 7,00 7,00 7,00 46 Method 8270 46 Method 8260 46 Method 9012	(°C) 9.63 9.92 9.91 10.03 9.97 10.04 9.98 SVOC F VOC'S E Total Cys	7.37 7.39 7.37 7.32 7.22 7.22 7.22 2.29	(mV) 218 198 179 166 155 145 141	(mS/cm) 1. 43 1.52 1.52 1.53 1.53 1.52	(NTU) 2/,8 /3.7 /0.5 6,6 5.9 4,5 4.0 2 - 100 ml amb 3 - 40 ml vial 1 - 250 ml plas	(mg/L)  0.00  0.00  0.00  0.00  0.00  6.00  ers Yes s Yes stic Yes	(g/L) -9/5 -972 -972 -977 -977 -978
1325   1330   1335   1340   1345   1350   1355   1355   1355   1355   EPA SW-8- EPA SW-8- EPA SW-8- Sample ID:	(feet) 6.98 7.00 7.00 7.00 7.00 7.00 7.00 7.00 4.00 6 Method 8270 46 Method 8260 46 Method 9012 MW-13-04	(°C) 9.63 9.92 9.91 10.00 9.97 10.04 9.98  SVOC F VOC's E Total Cys	2.37 2.39 2.39 2.37 7.32 7.21 2.29 PAH's BTEX anide	(mV) 2/8 /98 /79 /66 /55 /45 /41	(mS/cm) 1. 43 1.52 1.52 1.53 1.53 1.52	(NTU) 2/,8 /3,7 /0.5 6,6 5,9 /,5 //,0 2 - 100 ml amb 3 - 40 ml vial 1 - 250 ml plas ipped: Pa	ers Yes stic Yes	(g/L) -975 -972 -970 -971 -972 -977 -978
1325   1330   1335   1340   1345   1350   1355   1355   1355   1355   1355   1355	(feet) 6.98 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.0	(°C) 9.63 9.92 9.91 10.00 9.97 10.04 9.98  SVOC F VOC's E Total Cys	2.37 2.39 2.39 2.37 7.32 7.21 2.29 PAH's BTEX anide	(mV) 218 198 179 166 155 145 141	(mS/cm) 1. 43 1.52 1.52 1.53 1.53 1.53	(NTU) 2/,8 /3,7 /0.5 6,6 5,9 /,5 //,0 2 - 100 ml amb 3 - 40 ml vial 1 - 250 ml plas ipped: Pa	(mg/L)  0.00  0.00  0.00  0.00  0.00  6.00  ers Yes s Yes stic Yes	(g/L) -975 -972 -977 -977 -977 -978  No N



# CHAIN-OF-CUSTODY / Analytical Request Document

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

	Section B		Section 0																	Page:	1 of 1	$\dashv$
ito dano a comment	Required Project Information: Report To: Devin Shay (GES)		Attention:	rmation: Accounts Pay	/abie via email	at ges-invoice	es@gesc	online.con			—						RE	GULA:	TORY	AGENC	Υ	
Company. GEO - Gyradado	dshay@gesonline.com													NPDES	1	ROUN				ING WAT		
Address: 6780 Northern Blvd, Suite 100	Report To: Tim Beaumont (GES) beaumont@gesonline.com		Company Name: Groundwater & Environmental Services, Inc.					1				G WA										
East Syracuse, New York 13057			Address: 6780 Northern Blvd, Suite 100, East Syracuse, NY 13057						UST	Γ'α	_			HER		in N						
Ellian 10. concy@goodninis.com	Purchase Order No.:		Pace Quote Reference: SITE 3A						Γ.		i ni ∷ ∃ER											
x4051	Project Name: National Grid - Ilion Street, Ilion NY	Ea:	East Pace Project Manager: Rachel Christner    Pace Project Manager: Rachel Christner   LOCATION   1 H					77	<del>//</del> _	- 1EK_	<del>-</del> /											
Nadaobio o o o o o o o o o o o o o o o o o o	Project Number: 0603275-133570-221-1106		Pace Prof	le #.	,	semi-Ani	tual G	442					┷┪	iltered (Y/N	)			$-\!\!/$	++	//	///	44
Section D Required Client Information SAMPLE ID One Character per box.  (A-Z, 0-9 / -) Consults T BE INIXX IF	VARI MENICOSS  ANTERO CONTROL	MATRIX CODE CAMOR ETVER CAGRAR CHOMP	COMPOSITE:		CATE DATE	TIME	SAMPLE TEMP AT COLLECTION	#DF CONTAINERS	inpreserved 6.50,	Prese	HOS	4a,S <sub>2</sub> O <sub>3</sub>		lequested Analysis:							Pac	e Project Number Lab I.D.
		$\vdash$	DATE	DME		10:15		6	2 2	<del>-     -</del>	3 1		Ţ		3 2		1					
MW-02R-10			G G		<u>પ્યાય</u>	1010		6	2	1	3 1		<b>   </b>		3 2	1						
MW-03-102			G			11:30		6	2	1 1	3 1				3 2	1	I					
8 MW-06-102			G G		1	11:30		6	2	1	3 1	$\Box$	$\top$		3 2	1						
MW-06-MS-1			G.			11 30		6	2	11	3 1	П			3 2	1						
8 MW-06-MSD-			G.			10:00		6	2	T	3 1	П			3 2	[1]						
6 <u>MW-07-102</u> 7 MW-08R-10			G			11:05		6	2		3 1				3 2	1		$\coprod$	$\perp \perp$			
7 MW-08R-10			G .			11.50		6	2		3 1				3		$\perp$	$\downarrow \downarrow$	$\coprod$	$\perp$		
ED 1021	. 1	WT				-	T	6	2		3 1				3 :	1	4	$\bot$	$\perp \! \! \perp$	1		
Tain Dinair	s	wr			V			3			3				3	11	$\perp$	<del>     </del>	$\coprod$	4—		
10 I TIP BIAITS	·							<u> </u>	$\perp \downarrow$	$\perp$	$\perp$	11	Ш		$\downarrow \downarrow$	1-1	4	1-	$+\!\!+\!\!\!+$	4		
12						<u> </u>		<u> </u>	$\sqcup \downarrow$	$\perp \downarrow$	$\bot$	11	$\perp$	<u> </u>	44	$\downarrow \downarrow$	-	+	+	<del> </del>		
13																					NDITION	
Additional Comments: #	COOLERS.	RELIN	CUISHED 6º	C/AFFILIANI		DATE	SMIT		PEGDI	BY AF	HUAT	ON				DATE		TIME	SAN		- <del>-</del> -	
SAMPLES WILL ARRIVE IN		1			<u>Z_k</u>	121/4	12:9	4							-		+		+	N.	N.A.	N Y N
•						1	<del> </del>	<del>  -</del>							$\dashv$		+		+	N N	N.	×.
						<u> </u>	ļ <u>.</u>	<del> </del>							-		-+		+	<u>}</u>	F	× ×
NERegion@gesonline.com, ges@equisonlin	e.com					<u> </u>	<u> </u>	Ш									4		-			<del>     </del>
SPECIFIC EDD NAME: NGIlion-labnumber.28351.EQEDD.zip				PRINT	R NAME AND	U &					_   av	ie som	3/2	1721					Temp in °C	Received on	Custody Sealed Cooler	Samples Intact

National Grid First Street Ilion, New York

Well ID	Sample?	Well Size	DTW	DTP	DTB	Comments
MW-02R	Yes	2"	12.52		18.30	Field Duplicate
MW-03	Yes	2"	5.97		27.25	
MW-06	Yes	2"	17.76		28.60	MS/MSD
MW-07	Yes	2"	8.72		16.87	
MW-08R	Yes	2"	9.51		20.20	
MW-13	Yes	2"	6.69		23.82	

DTW -depth to water

DTP -depth to product

DTB -depth to bottom

Date:
Well Information
Well Information  TOC Other  Well Type: Flushmount   Stick-Up   Depth to Water: (feet)   27.25   Well Locked:   Yes   No   Depth to Bottom: (feet)   27.25   Well Locked:   Yes   No   Depth to Product: (feet)   Well Material:   PVC   SS   Other:   Well Material:   PVC   SS   Other:   Well Diameter:   1"   2"   Other:   Velocity   Veloci
Depth to Water: Depth to Bottom: Depth t
Depth to Water: Depth to Bottom: Depth t
Depth to Water: (feet) 5.97   Well Locked: Yes   No   Depth to Bottom: (feet) 27.25   Well Locked: Yes   No   No   Depth to Product: (feet)   27.25   Well Material: PVC   SS   Other: Well Material: PVC   SS   Other: Well Diameter: 1"   2"   Other: Other: Comments:   Other: Depth to Product: (feet)   7.28   Other: Well Diameter: 1"   2"   Other: Other: Depth to Product: (feet)   7.28   Other: Well Diameter: 1"   2"   Other: Depth to Product: (feet)   7.29   Other: Well Diameter: 1"   2"   Other: Other: Depth to Product: (feet)   7.20   Other: Well Diameter: 1"   2"   Other: Other: Depth to Product: (feet)   7.20   Other: Well Diameter: 1"   2"   Other: Other: Other: Other: Depth to Product: (feet)   7.20   Other: Well Diameter: 1"   2"   Other: Othe
Depth to Bottom: (feet) 27.25 Depth to Bottom: (feet) 27.25 Depth to Product: (feet) 21.28 Length of Water Column: (feet) 31.28 Volume of Water in Well: (gal) 3.40 Three Well Volumes: (gal) 10.21  Purging Information Purging Method: Bailer Peristaltic Sampling Method: Bailer Peristaltic Sampling Method: Bailer Peristaltic Sampling Method: Grundfos Pump Polyethylene Grundfos Pump Polyethylene Grundfos Pump Duration of Pumping: (min) 2.00 Duration of Pumping: (min) 2.00 Duration of Pumping: (min) 2.00 Total Volume Removed: (gal) 2.00 Horiba U-52 Water Quality Meter Used? Yes No  Time DTW Temp pH ORP Conductivity Turbidity DO TDS (feet) (C) (mV) (mS/cm) (NTU) (mg/L) (g/L) (g/L) (J-1/5, J-1/5, J-1
Depth to Product: (feet)
Length of Water Column:
Purging Information  Purging Method: Tubing/Bailer Material: Sampling Method: Bailer Peristaltic Stainless St. Sampling Method: Bailer Peristaltic Stainless St. Polyethylene Grundfos Pump Polyethylene Grundfos Pump Polyethylene Grundfos Pump Off Unation of Pumping: Total Volume Removed: Horiba U-52 Water Quality Meter Used?  Time DTW Temp PH ORP Conductivity Turbidity DO TDS (feet) (C) (MV) (mS/cm) (NTU) (mg/L) (g/L)  PORCONDUCTION OF TOS (MS/cm) (MS/cm) (NTU) (mg/L) (g/L)  PORCONDUCTION OF TOS (MS/cm) (MS/c
Purging Information  Purging Method: Tubing/Bailer Material: Sampling Method: Bailer Teflon Stainless St. Sampling Method: Duration of Pumping: Total Volume Removed: Horiba U-52 Water Quality Meter Used?  Peristaltic Stainless St. Peristaltic Stainless St. Peristaltic Stainless St. Grundfos Pump Grundfos Pump Grundfos Pump  Total Volume Removed:  (gal) Z Did well go dry? Yes No  Time DTW Temp (feet) (C) (mV) (mS/cm) (NTU) (mg/L) (gy/L) (gy
Purging Method:   Bailer   Peristaltic   Grundfos Pump   Grundfos Pump   Polyethylene   Sampling Method:   Bailer   Peristaltic   Stainless St.   Polyethylene   Sampling Method:   Bailer   Peristaltic   Grundfos Pump   Grundfos Pump   Average Pumping Rate:   (ml/min)   Z-DD   Duration of Pumping:   (min)   Z-DD   Duration of Pumping:   (min)   Z-DD   Duration of Pumping:   (min)   Z-DD   Did well go dry?   Yes   No   No   No   No   No   No   No   N
Purging Method:   Bailer   Peristaltic   Grundfos Pump   Grundfos Pump   Polyethylene   Sampling Method:   Bailer   Peristaltic   Sampling Method:   Bailer   Peristaltic   Grundfos Pump
Purging Method:   Bailer   Peristaltic   Grundfos Pump   Grundfos Pump   Polyethylene   Sampling Method:   Bailer   Peristaltic   Sampling Method:   Bailer   Peristaltic   Grundfos Pump
Purging Method:
Sampling Method:   Bailer   Peristaltic   Grundfos Pump     Water   0.04   0.16   0.66   1.4
Sampling Method:   Baller   Perstallic   Gruntos Fump   1 gallon=3.785L=3785mL=1337cu. fee
Average Pumping Rate.   (min)
Total Volume Removed:         (gal)         2         Did well go dry?         Yes         No           Horiba U-52 Water Quality Meter Used?         Yes ∑ No         No           Time         DTW         Temp         pH         ORP         Conductivity         Turbidity         DO         TDS           (feet)         (°C)         (mV)         (mS/cm)         (NTU)         (mg/L)         (g/L)           (D:0         (D:0         1/4-8Z         0.66         1/29         1.65         1/9         9-50         1.09           (D:10         1/4-8Z         0.66         1/23         1.26         51-D         9-37         0.80           (D:10         1/4-8Z         0.66         -123         1.26         51-D         9-37         0.80           (D:10         1/4-8Z         0.66         -123         1.26         51-D         9-37         0.80
Horiba U-52 Water Quality Meter Used?   Yes   No
Time DTW Temp pH ORP Conductivity Turbidity DO TDS (mV) (mS/cm) (NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (D:13 6.65 14.82 6.66 -1.69 1.65 1.99 9.58 1.09 (D:15 6.65 14.80 6.60 -1.23 1.26 51.0 9.37 0.80 (D:15 6.65 1.99 9.37 0.36 (D:15 6.65 1.99 0.36 (D:15 6.65 1
Time DIW Temp pH ORF Solidativity (mg/L) (mg/L) (g/L) (mv) (ms/cm) (NTU) (mg/L) (g/L) (D:13 6.05 14.82 6.66 -1.69 1.65 1.09 9.50 1.09 12.15 (4.50 14.80 6.61 -1.23 1.26 51.0 9.37 0.80 1.23 1.26 51.0 9.37 0.80
(feet) (°C) (mV) (mS/cm) (NTU) (mg/L) (g/L) (D:13 6-05 14-82 6-66 -109 1-65 109 9-50 1-09 (D:15 6/5 14-80 6-61 -123 1-26 51-0 9-37-0.80 (D:16 6/6) 14-63 6-53 -114 1-2-0 12-7 9-21 0-76
12:15 610 14.80 6.61 -123 1.26 51.0 9.37 0.80
11:15 6/3 14:53 -114 1:20 12-2 9.21 0.76
# 16'05   1' is   10 6 4   10:03   1 110   1 1/20   1 14"C   Lieu   12 72
10:20 6.10 14:53 6:33 119 6:5 8:96 0.75
10:30 1.10 14.25 6.35 -63 1.19 3.5 8.55 0.75
14.38 6.10 14.33 6.37 -50 1.18 2.2 8.15 0.75
10:40 6.10 14-40 6.41 -36 1.17 1.9 7.84 6 75
Sampling Information:
O 100 ml ambara Voc No
EPA SW-846 Method 82/0 SVOC FARS
EPA SW-846 Method 8260 VOCS BTEX
EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic 1 - 250 ml plastic 1 - 250 ml plastic
Sample ID: MW-03-1021 Duplicate? Yes No Shipped: Pace Courier Pickup
Sample Time: MS/MSD? Yes No Drop-off Albany Service Center
Comments/Notes:  Laboratory: Pace Analytical Greensburg, PA Page

	- tololot					
Sampling Personnel:	Date: 10/21/21					
Job Number: 0603275-133570-221	Weather: PC 60					
Well ld. MW-06	Time In: 10:45 Time Out: 11:45					
Well Information	Well Type: Flushmount Stick-Up					
TOC Other	Well Type: Flushmount Stick-Up Well Locked: Yes No					
Depth to Water: (feet) 17.76  Depth to Bottom: (feet) 28.60	Measuring Point Marked: Yes No No					
Depth to Bottom: (feet) 28.60  Depth to Product: (feet)	Well Material: PVC SS Other:					
Length of Water Column: (feet) 10.84	Well Diameter: 1" 2" Other:					
Volume of Water in Well: (gal) 1-7-3	Comments:					
Three Well Volumes: (gal) 5 2						
Purging Information	Conversion Factors					
Purging Method: Bailer Peristaltic Grundfe	gal/ft. 1" ID 2" ID 4" ID 6" ID					
Purging Metriod.	rethylene of					
	os Pump water 0.04 0.16 0.66 1.47					
Average Pumping Rate: (ml/min) 2,70	1 gallon=3.785L=3785mL=1337cu. feet					
Duration of Pumping: (min) 30						
Total Volume Removed: (gal) Z Did well go dry?	Yes No					
Horiba U-52 Water Quality Meter Used?						
Holiba 0-02 vvator duality inter-						
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS					
(feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L)					
11:00 17.82 14.91 6.560 -87	1.18 25.7 6.84 0.756					
11:05 17.95 19.15 6-71 -100	1.10					
11:10 17.95 15.11 6.74 -84						
11:15 17:95 14.90 6:75 -68	1.29 0.3 4.90 0.829					
11.20 17.85 14.90 10.79 -36	131 04 4-54 0-844					
1625 17.85 14.83 6.84 -45	1.32 0.4 4.32 0.847					
11.30 17.05 19.00						
Sampling Information:						
	6 - 100 ml ambers Yes No █					
EPA SW-846 Method 8270 SVOC PAH's	9 - 40 ml vials Yes No					
EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide	3 - 250 ml plastic Yes No					
MW-06-MS-1021 MW-06-MSD-1021 Sample ID: MW-06-1021 Duplicate? Yes No	Shipped: Pace Courier Pickup					
11 (30) 16(15) LD, 10(17) YY 1Y= 1 = "F" """	Drop-off Albany Service Center					
MC/MCD2 Vool X INO	Diop-on Albany dervice derive.					
Sample Time: MS/MSD? Yes No Comments/Notes:	Laboratory: Pace Analytical  Greensburg, PA  Page 10 of					

\\svrrmt88-vm3\syracuse-01\Dashboard\Planning\900007.xlsm

Last Offeet, mon 1404 Tork							
Sampling Personnel:	u_			Date:	0/2/12		
Job Number: 0603275-13	3570-221			Weather:	PC 38	<u> </u>	
Well Id. MW-07	······································	Time In: 6	73 · · · · · · · · · · · · · · · · · · ·				
Wellia.							
Well Information							
		TOC	Other	Well Type:		hmount Stick-Up	
Depth to Water:		・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		Well Locke		Yes No No	
Depth to Bottom:		16.87		Measuring P		Yes No No Other:	
Depth to Product:	(feet)	.15		Well Materi Well Diame		2" Other:	
Length of Water Column: Volume of Water in Well:	(feet) Z	30		Comments:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Three Well Volumes:	(gal) 7	91		0011111011101			
Tillee vven voidines.	(85/) 1 -3						
Purging Information							
			<del></del>	<b></b>		Conversion Factors	
Purging Method:	Bailer	Peristaltic	<del></del>	os Pump	gai/ft.	1" ID 2" ID 4" ID 6" ID	
Tubing/Bailer Material:	Teflon	Stainless St.	k	yethylene	of	0.04 0.16 0.66 1.47	
Sampling Method:	Bailer	Peristaltic	Grund	os Pump	water	on=3.785L=3785mL=1337cu. feet	
Average Pumping Rate:	(1774.111.17)	2 <i>0</i> 0			l gan	0  -0.700E-0700   E100704.1000	
Duration of Pumping: Total Volume Removed:	(min) (gal)	<u>30</u>	id well go dry?	Yes No			
					4		
Horiba U-52 Water Quality M	eter Used?	Yes	No L				
			I OPP	Conductivity	Turbidity	DO TDS	
Time DTW	Temp	pН	ORP (mV)	(mS/cm)	(NTU)	(mg/L) (g/L)	
09:31/ 8 95	(°C) /2-88	6.15	95	0.001	146	10.83 O.000	
09:31 8 95	12-99	5.71	68	0.001	144	10.19. 0.00	
09.40 9.84	14.19	10.60	-112	1.40	217	1.34 0.904	
09.45 10-02	14.45	6-79	-117	1.56	143	1.03 0.999	
09:50 10-09	14.60	6.89	-120	1.67	181	0.79 61.07	
09:95 10.14	14.61	699	-119	131.69	185	0-77 1.08	
10:00 10.20	14.66	697	-11-+	1.69	1.78	0.72 1.08	
			<del> </del>				
	<u> </u>						
<u> </u>							
Sampling Information:							
EPA SW-846 Method 8270	SVOC F	PAH's			2 - 100 ml am	bers Yes No	
EPA SW-846 Method 8260	VOC's I	BTEX			3 - 40 ml via	<b>—</b>	
EPA SW-846 Method 9012	Total Cy	anide		**************************************	1 - 250 ml pla	astic Yes No	
	-		Van Tiller	7 %	hipped: F	Pace Courier Pickup	
Sample ID: MW-07-10		plicate?	Yes No	r K	ak.	off Albany Service Center	
Sample Time: 10:00	IMS	S/MSD?	Yes No 2	<u> </u>	W		
Comments/Notes:				1	Laboratory:	Pace Analytical Greensburg, PA Page 11 of	
				ll.		Crashina DA	

East Street, inc	NI HOW LOLK		<u>"-</u>						
Sampling Pers	onnel: Pd	1 400			Date: jo/	31/21			
Job Number:	0603275-13				Weather: Suna				
	MW-02R			***************************************	Time In: 09	44	Time Out:	<b>p20</b>	
weir id.	19194-0211							·	
Well Info	rmation						5-21		
			TOC	Other	Well Type:		<del></del>	tick-Up	
Depth to Wate		<u>`</u>	12.52		Well Locked Measuring Po		Yes Yes	No No	
Depth to Botto		(feet)	18.30		Well Materia	<b>T</b>	SSOthe	<u> </u>	
Depth to Produce Length of Wat		(feet)	5.78		Well Diame	· · ·	2" X Othe	er:	
Volume of Wa		(gal)	.92		Comments:	_		ļ.	
Three Well Vo		(gal)	2.77				<u> </u>		
								1	
Purging Ir	nformation						Conversion F	actors	
B Math		Bailer	Peristaltio	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID	
Purging Metho Tubing/Bailer		Teflon	<del></del>	<b>~</b>	vethylene	of			
Sampling Met		Bailer	Peristaltic	<del></del>	os Pump	water	0.04 0.16		
Average Pum		(ml/min)	200			1 gallo	on=3.785L=3785m	L=1337cu. feet	
Duration of Pu	umping:	(min)	<u> 36 </u>		, <u> </u>				
Total Volume	Removed:	(gal)		id well go dry?	Yes No	X.)		· l	
Horiba U-52 \	Nater Quality N	/leter Used?	Yes	No No					
								TDe l	
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity (NTU)	DO (mg/L)	TDS (g/L)	
	(feet)	(,c)	6.91	(mV)	(mS/cm)	22.4	1/3	. 747	
0945	12.72	15.07	6.78	-127	1.17	19.2	0.88	. 249	
0950	13.02	14.97	6.69	-/27	1.17	21.4	0.87	.751	
1000	13.18	15.17	6.66	-/36	1.18	19.6	0.89	1756	
1005	13.31	15.28	6.64	-/33	1.19	15.7	0.90	274	
1010	13.49	15.35	6.64	-/36	1.19	25.5	0.92	.743	
1015	13.68	15.25	6.63	-137	7.72	32.1	0.77	-//	
	<u> </u>		<u> </u>	<u> </u>					
Sampling In	formation:								
				:		4 400 1	L Voc	s No	
EPA SW-8	346 Method 8270					4 - 100 ml am 6 - 40 ml via		No No	
1	846 Method 8260			İ		2 - 250 ml pla		s No	
EPA SW-	846 Method 9012	2 Total C FD-1021	yanide			pic			
Sample ID:	MW-02R-		uplicate?	Yes No	SI	hipped: F	Pace Courier Pic	kup 🔀	
Sample Time:			S/MSD?	Yes No		Drop-	off Albany Servic	ce Center	
<u></u>						Laboratory:	Pace Ar	nalytical	
Comments/N	votes:					•	Greensb	ourg, PA Page 8 of	
	syracuse-01\Dash				- 11		0,00,.00		

Sampling Personnel: PU	red Lyan	Date: 10/3	Date: 10/11/21						
Job Number: 0603275-1	1			Weather: 60 Sunt					
Weil Id. MW-08R				Time In:	35	Time Out:	1110		
VVCII IG. ISSV COIX									
Well Information									
		TOC	Other	Well Type:		mount S	tick-Up		
Depth to Water:	(feet)	Well Locked: Yes No							
Depth to Bottom:	(feet)	•	Measuring Point Marked: Yes No Other:						
Depth to Product:	(feet)	Well Materi Well Diame	F	2" \ Othe					
Length of Water Column:		1.71		Comments:	_		···		
Volume of Water in Well: Three Well Volumes:	(gal) (gal)	5.13		OCH III OCH I					
Three Well Volumes.	(gai)								
Purging Information									
	•	_				Conversion Fa			
Purging Method:	Bailer	Peristaltic		os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID		
Tubing/Bailer Material:	Teflon	Stainless St.		ethylene	of	0.04	0.66 1.47		
Sampling Method:	Bailer	Peristaltic	Grundf	os Pump	water	0.04 0.16			
Average Pumping Rate:		200			1 gallo	on=3.785L=3785m	L=1337cu, leet		
Duration of Pumping:	(min)	30	Athe mean of more	Yes No	<u>.</u>				
Total Volume Removed:	(gal)		d weil go dry?	resno[	4		:		
Horiba U-52 Water Quality	Meter Used?	Yes	No.						
							r		
Time DTW	Temp	pН	ORP	Conductivity	Turbidity	DO (mg/L)	TDS (g/L)		
(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)		
(feet) 1035 10.32	(°C) 16.01	6.84	(mV)	(mS/cm) /,/0	(NTU) 52.6	(mg/L) 4.26	(g/L) , 701		
(feet) 1035 10.32 1040 10.75	(°C) 16.01 15.93	6.84	(mV) //4 205	(mS/cm) /,/0 /.//	(NTU) 52.6 36.8	(mg/L) 4.26 4.11	(g/L) , 70 i , 7/0		
(feet)  1035 10.32  1040 10.75  1045 1635	(°C) 16.01 15.93 16.02	6.84 6.78 6.78	(mV) 114 205 241	(mS/cm) /,/0	(NTU) 52.6 36.8 27.0	(mg/L) 4.26 4.11 3.98	(g/L) .70i .710		
(feet)  1035 10.32  1040 10.75  1045 1635  1056 11.34	(°C) 16.01 15.93 16.02 16.03	6.84 6.78 6.78 6.72	(mV) 114 205 241 252	(mS/cm) /,/0 /.// /.//	(NTU) 52.6 36.8	(mg/L) 4.26 4.11 3.98 3.91 3.84	(g/L) .70i .710 .714 .711		
(feet)  1035 10.32  1040 10.75  1045 16.35  1056 11.34  1055 11.59	(°C) 16.01 15.93 16.02 16.03	6.84 6.78 6.78 6.72 6.72	(mV) 114 205 241 252 259	(mS/cm)  1.10  1.11  1.11  1.10  9995	(NTU) 52.6 36.8 27.0 22.4	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1040 10.75  1045 1635  1056 11.34  1055 11.59  1100 11.84	(°C) 16.01 15.93 16.02 16.03 16.03 16.03	6.84 6.78 6.78 6.72	(mV) 114 205 241 252	(mS/cm) /, / 0 /. // /. // /. //	(NTU) 52.6 36.8 27.0 22.4 19.0	(mg/L) 4.26 4.11 3.98 3.91 3.84	(g/L) .70i .710 .714 .711		
(feet)  1035 10.32  1040 10.75  1045 16.35  1056 11.34  1055 11.59	(°C) 16.01 15.93 16.02 16.03	6.84 6.78 6.78 6.72 6.72 6.77	(mV) 114 205 24/ 252 259 261	(mS/cm)  1.10  1.11  1.11  1.10  9995	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1040 10.75  1045 1635  1056 11.34  1055 11.59  1100 11.84	(°C) 16.01 15.93 16.02 16.03 16.03 16.03	6.84 6.78 6.78 6.72 6.72 6.77	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1040 10.75  1045 1635  1056 11.34  1055 11.59  1100 11.84	(°C) 16.01 15.93 16.02 16.03 16.03 16.03	6.84 6.78 6.78 6.72 6.72 6.77	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1040 10.75  1045 1635  1056 11.34  1055 11.59  1100 11.84	(°C) 16.01 15.93 16.02 16.03 16.03 16.03	6.84 6.78 6.78 6.72 6.72 6.77	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1040 10.75  1045 16.35  1056 11.34  1055 11.59  1100 11.94  1105 11.96	(°C) 16.01 15.93 16.02 16.03 16.03 16.03	6.84 6.78 6.78 6.72 6.72 6.77	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1040 10.75  1045 1635  1056 11.34  1055 11.59  1100 11.84	(°C) 16.01 15.93 16.02 16.03 16.03 16.03	6.84 6.78 6.78 6.72 6.72 6.77	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1070 10.75  1075 16.35  1056 11.34  1055 11.59  1100 11.94  1105 11.96   Sampling Information:	(°C) 16.01 15.93 16.03 16.03 16.03 16.03	6.84 6.78 6.78 6.72 6.72 6.75	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95 4.09	(g/L) .70i .710 .714 .711 .704 .835		
(feet)  1035 10.32  1040 10.75  1045 16.35  1056 11.34  1055 11.59  1100 11.94  1105 11.96  Sampling Information:  EPA SW-846 Method 827	(°C) 16.01 15.93 16.02 16.03 16.03 16.03 16.02	6.84 6.78 6.78 6.72 6.72 6.75	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0 16.2	(mg/L) 4.26 4.11 3.98 3.91 3.84 3.95 4.09	(g/L) .70i .7/0 .7// .7// .704 .535 .637		
(feet)  1035 10.32  1040 10.75  1055 16.35  1055 11.59  1100 11.94  1105 11.96  Sampling Information:  EPA SW-846 Method 827 EPA SW-846 Method 826	(°C) 16.01 15.93 16.03 16.03 16.03 16.02 0 svoc voc's	6.84 6.78 6.72 6.72 6.75 6.75	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0 16.2	(mg/L) 4.26 4.11 3.98 3.98 3.95 4.09  bers Yes	(g/L) .70i .7/0 .7// .7// .704 .535 .637		
(feet)  1035 10.32  1040 10.75  1045 16.35  1056 11.34  1055 11.59  1100 11.94  1105 11.96  Sampling Information:  EPA SW-846 Method 827	(°C) 16.01 15.93 16.03 16.03 16.03 16.02 0 svoc voc's	6.84 6.78 6.72 6.72 6.75 6.75	(mV) 114 205 24/ 252 259 261	(mS/cm)  1./0  1.//  1.//  1.//  1.//  1.//  2.75	(NTU) 52.6 36.8 27.0 22.4 19.0 12.0 16.2 2-100 ml aml 3-40 ml via	(mg/L) 4.26 4.11 3.98 3.98 3.95 4.09  bers Yes	(g/L) .70i .7/0 .7// .7// .7204 .637		
(feet)  1035 10.32  1040 10.75  1045 16.35  1056 11.34  1055 11.59  1100 11.94  1105 11.96  Sampling Information:  EPA SW-846 Method 827  EPA SW-846 Method 901	(°C) 16.01 15.93 16.03 16.03 16.03 16.03 16.03 16.03 16.03 16.03 Total C	6.84 6.78 6.72 6.72 6.75 6.75	(mV) 114 205 24/ 252 259 261	(mS/cm)  1.10  1.11  1.11  1.10  995  995	(NTU)	(mg/L)  4.26  4.11  3.98  3.98  3.95  4.09  bers Yes estic Yes Pace Courier Pic	(g/L) .70i .7/0 .7// .7// .204 .535 .637		
(feet)  /035 /0.32  /040 /0.75  /055 /6.35  /056 //.34  /055 //.59  //00 //.94  //05 //.96  Sampling Information:  EPA SW-846 Method 827  EPA SW-846 Method 901  Sample ID: MW-08R	(°C) 16.01 15.93 16.03 16.03 16.03 16.03 16.02 0 SVOC 0 VOC's Total C	6.84 6.78 6.78 6.72 6.72 6.75 6.75	(mV) 114 205 241 252 259 261 265	(mS/cm)  1.10  1.11  1.11  1.10  995  995	(NTU)	(mg/L)  4.26  4.11  3.98  3.91  3.84  3.95  4.09  bers Yes stic Yes	(g/L) .70i .7/0 .7// .7// .204 .535 .637		
(feet)  /035 /0.32  /040 /0.75  /055 /6.35  /056 //.34  /055 //.59  //00 //.94  //05 //.96  Sampling Information:  EPA SW-846 Method 827  EPA SW-846 Method 901  Sample ID: MW-08R	(°C) 16.01 15.93 16.03 16.03 16.03 16.03 16.02 0 SVOC 0 VOC's Total C	6.89 6.78 6.78 6.72 6.72 6.75 6.75 PAH's BTEX yanide	(mV) 1/4 205 24/ 252 259 261 265	(mS/cm)  1.10  1.11  1.11  1.10  995  995	(NTU)	(mg/L)  4.26  4.11  3.98  3.91  3.95  4.09  bers Yes estic Yes  Pace Courier Pictoff Albany Service  Pace An	(g/L) .70i .7/0 .7/0 .7// .7// .7// .7// .7// .7//		

\\svrrmt88-vm3\syracuse-01\Dashboard\Planning\900007.xlsm

Sampling Pers	sonnel: Pex	uhon			Date: 10/0	4/2					
Job Number:	0603275-13	•			Weather:	Weather: 60° Claudy					
Well Id.	MW-13				Time In:	117	Time Out:	1155			
Well id.	1010 10										
Well Info	ormation										
			TOC	Other	Well Type:		₩ 3	Stick-Up			
Depth to Wate		(feet)	6.69		Well Locke		Yes Yes	No No			
Depth to Botto		(feet)	23.82		Measuring P Well Materi		SS Oth				
Depth to Prod Length of Wat		(feet)	17.13	Well Diameter: 1" 2" Other:							
Volume of Wa		(gal)	2.74		Comments:	;					
1	hree Well Volumes: (gal) 2.22										
						<del></del>					
Purging Ir	nformation						Conversion F	actors			
Purging Metho	od:	Bailer	Peristaltic	Grundfe	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID			
Tubing/Bailer		Teflon	<del></del>		rethylene	of					
Sampling Met		Bailer	Peristaltic	Grundf	os Pump	water	<del></del>	0.66 1.47			
Average Pum	ping Rate:	(ml/min)	5 <i>00</i>			1 gal	on=3.785L=3785m	nL=1337cu. feet			
<u>Duration of P</u> ι		(min)	<u> 36                                   </u>	المسلم مسالمين الد	Yes No	<u>ন</u>					
Total Volume		(gal)		d well go dry?	Yes No	. <u>V</u> .					
Horiba U-52 V	Nater Quality N	Meter Used?	Yes	No□				i			
						TL: Jik.	l po	The II			
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO (mg/L)	TDS (g/L)			
Time	DTW (feet)	Temp (°C)	рН	ORP (mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)			
Time	DTW (feet) 6.87-	Temp (°C)	pH 6.97	ORP (mV)	(mS/cm) 1.53	-		1 11			
Time //a o //a 5	DTW (feet) 6.87 6.89	Temp (°C) /6.90	рН	ORP (mV) /30 //3	(mS/cm) 1.53 1.58 1.59	(NTU) 19.4 14.7 13.8	(mg/L) 1.18 0.49 0.42	(g/L) • 985 • 1.07 • 1.02			
Time  //2 0  //3 5  //3C	DTW (feet) 6.87- 6.89 6.87-	Temp (°C) 16.90 15.91 15.73	pH 6.97 6.91 6.90 6.89	ORP (mV) /30 //3 /02	(mS/cm) 1.53 1.58 1.59 1.59	(NTU) 19.4 14.7 13.8 12.6	(mg/L) 1.18 0.49 0.42 0.38	(g/L) .985 1.01 1.02			
Time  //3 o  //3 5  //3 C  //3 5  //3 5	DTW (feet) 6.87 6.87 6.87 6.86 6.85	Temp (°C) 16.90 15.91 15.73 15.72	pH 6.97 6.90 6.89 6.88	ORP (mV) /30 //3 //3 //02 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4	(mg/L) 1.18 0.49 0.42 0.38 0.35	(g/L) .985 1.01 1.02 1.02			
Time  //20 //25 //35 //35 //35 //40 //45	DTW (feet) 6.87 6.87 6.87 6.86 6.85	Temp (°C) 16.90 15.91 15.73 15.73 15.72 15.72	pH 6.97 6.91 6.90 6.89 6.88	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.4	(mg/L) 1.18 0.49 0.43 0.38 0.35	(g/L) .985 1.6/ 1.02 1.02 1.03			
Time  //3 o  //3 5  //3 C  //3 5  //3 5	DTW (feet) 6.87 6.87 6.87 6.86 6.85	Temp (°C) 16.90 15.91 15.73 15.72	pH 6.97 6.90 6.89 6.88	ORP (mV) /30 //3 //3 //02 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4	(mg/L) 1.18 0.49 0.42 0.38 0.35	(g/L) .985 1.01 1.02 1.02			
Time  //20 //25 //35 //35 //35 //40 //45	DTW (feet) 6.87 6.87 6.87 6.86 6.85	Temp (°C) 16.90 15.91 15.73 15.73 15.72 15.72	pH 6.97 6.91 6.90 6.89 6.88	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.4	(mg/L) 1.18 0.49 0.43 0.38 0.35	(g/L) .985 1.6/ 1.02 1.02 1.03			
Time  //20 //25 //35 //35 //35 //40 //45	DTW (feet) 6.87 6.87 6.87 6.86 6.85	Temp (°C) 16.90 15.91 15.73 15.73 15.72 15.72	pH 6.97 6.91 6.90 6.89 6.88	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.4	(mg/L) 1.18 0.49 0.43 0.38 0.35	(g/L) .985 1.6/ 1.02 1.02 1.03			
Time  //20 //25 //35 //35 //35 //40 //45	DTW (feet) 6.87 6.87 6.87 6.86 6.85	Temp (°C) 16.90 15.91 15.73 15.73 15.72 15.72	pH 6.97 6.91 6.90 6.89 6.88	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.4	(mg/L) 1.18 0.49 0.43 0.38 0.35	(g/L) .985 1.6/ 1.02 1.02 1.03			
Time    1/2 0     1/3 5     1/3 5     1/4 0     1/4 5     1/5 5	DTW (feet) 6.87 6.87 6.87 6.86 6.85 6.84 6.87	Temp (°C) 16.90 15.91 15.73 15.73 15.72 15.72	pH 6.97 6.91 6.90 6.89 6.88	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.4	(mg/L) 1.18 0.49 0.43 0.38 0.35	(g/L) .985 1.6/ 1.02 1.02 1.03			
Time  //20 //25 //35 //35 //35 //40 //45	DTW (feet) 6.87 6.87 6.87 6.86 6.85 6.84 6.87	Temp (°C) 16.90 15.91 15.73 15.73 15.72 15.72	pH 6.97 6.91 6.90 6.89 6.88	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.4	(mg/L) 1.18 0.49 0.43 0.38 0.35	(g/L) .985 1.6/ 1.02 1.02 1.03			
Time	DTW (feet) 6.87 6.87 6.86 6.85 6.84 6.87	Temp (°C) 16.90 15.91 15.73 15.72 15.72 15.82 15.83	pH 6.97 6.97 6.90 6.89 6.88 6.87	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.5 12.7	(mg/L) 1.18 0,19 0.13 0.38 0.35 0.35 0.36	(g/L) .985 1.61 1.02 1.02 1.03 1.03			
Time  //2 0  //3 5  //3 5  //3 5  //3 5  //3 5  //4 0  //3 5  //4 0  //4 5  //5 6  Sampling in	DTW (feet) 6.87 6.87 6.87 6.86 6.85 6.84 6.87	Temp (°C) 16.90 15.91 15.23 15.22 15.22 15.82 15.83	pH 6.97 6.90 6.89 6.88 6.87 6.87	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.4	(mg/L)  1.18  0.49  0.43  0.35  0.35  0.36	(g/L) .985 1.01 1.02 1.02 1.03 1.02			
Time	DTW (feet) 6.87 6.87 6.87 6.87 6.89 6.89 6.89 6.89 6.89 6.89	Temp (°C) 16.90 15.91 15.73 15.72 15.72 15.83 15.83	pH 6.97 6.97 6.90 6.89 6.88 6.87 6.87	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.59 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.7 12.7	(mg/L)  1.18  0.47  0.42  0.35  0.35  0.36  bers Yeals	(g/L) .985 1.01 1.02 1.02 1.03 1.02			
Time	DTW (feet) 6.87 6.87 6.87 6.86 6.85 6.84 6.87	Temp (°C) 16.90 15.91 15.73 15.72 15.72 15.83 15.83	pH 6.97 6.97 6.90 6.89 6.88 6.87 6.87	ORP (mV) 130 113 102 95	(mS/cm) 1.53 1.58 1.59 1.60 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.7 12.7 2-100 ml am 3-40 ml via 1-250 ml pla	(mg/L)  1.18  0.49  0.43  0.35  0.35  0.36  bers Yestic Yestic	(g/L) .985 1.01 1.02 1.02 1.03 1.02 1.02			
Time	DTW (feet) 6.87 6.87 6.87 6.87 6.89 6.89 6.89 6.89 6.89 6.89	Temp (°C)  16.90  15.91  15.23  15.22  15.82  15.83  SVOC  VOC's  Total Cy	pH 6.97 6.90 6.89 6.88 6.87 6.87 6.87 PAH's BTEX vanide	ORP (mV) /30 //3 /02 95 9/ 88 88	(mS/cm) 1.53 1.58 1.59 1.60 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.7 12.7 2-100 ml am 3-40 ml via 1-250 ml pla	(mg/L)  1.18  0.47  0.42  0.35  0.35  0.36  bers Yes stic Yes	(g/L) .785 /.0/ /.02 /.02 /.03 /.03 /.03 /.03 /.03			
Time	DTW (feet) 6.87 6.87 6.87 6.87 6.85 6.87 6.87 6.87 6.87 6.87 6.87 6.87 6.87	Temp (°C)  16.90  15.91  15.23  15.22  15.82  15.83  SVOC  VOC's  Total Cy	pH  6.97  6.90  6.89  6.88  6.87  6.87  884  6.87	ORP (mV) 130 113 102 95 21 88 88	(mS/cm) 1.53 1.58 1.59 1.60 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.7 12.7 2-100 ml am 3-40 ml via 1-250 ml pla	bers Yeals Yeastic Yeace Courier Picoff Albany Service	(g/L) .785 .7.07 .7.02 .7.02 .7.03 .			
Time	DTW (feet) 6.87 6.87 6.87 6.87 6.85 6.85 6.84 6.85 6.85 6.84 6.85 6.85 6.85 6.85 6.85 6.85 6.85 6.85	Temp (°C)  16.90  15.91  15.23  15.22  15.82  15.83  SVOC  VOC's  Total Cy	pH 6.97 6.90 6.89 6.88 6.87 6.87 6.87 PAH's BTEX vanide	ORP (mV) /30 //3 /02 95 9/ 88 88	(mS/cm) 1.53 1.58 1.59 1.60 1.60 1.60	(NTU) 19.4 14.7 13.8 12.6 12.4 12.7 12.7 2-100 ml am 3-40 ml via 1-250 ml pla	bers Yes stic Yes Pace Courier Pice off Albany Service Pace Ar	(g/L) .785 .7.07 .7.02 .7.02 .7.03 .			



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



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 Blacksburg, VA 24060

T. 800.662.5067

December 22, 2021

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

RE: Data Usability Summary Report for National Grid- Ilion, East Ave.: Data Package Pace Analytical Job No. 30417109

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the April 2021 sampling events at the National Grid Ilion, East Avenue site. Six aqueous samples, a matrix spike/matrix spike duplicate pair, a trip blank and a field duplicate were collected from the main site. These samples were processed for volatile organic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), cyanide and polynuclear aromatic hydrocarbons (PAHs).

Analytical methodologies are those of the USEPA SW846 with additional requirements of the NYSDEC ASP.

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

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

All of the items were determined to be acceptable for use after the DUSR level review, with the exception of data qualified as "R" (rejected) in **Table 1**. Positive VOC data in sample MW-02R was not confirmed in the duplicate sample and should not be considered representative of the sampling location. Data qualified as estimated "J" can be used with caution for most decision making purposes.



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

**Table 1 – Data Qualifications** 

Sample ID	Qualifier	Analyte	Reason for qualification
MW-02R-0420	R	Benzene Ethylbenzene Toluene Xylene (Total) m&p-Xylenethrene o-Xylene	Positive blank contamination
	J	Acenaphthene Acenaphthylene Fluorene Naphthalene	RPD exceeds maximum
MW-03-0421	J-	Cyanide	Low MS/MSD

J: estimated detect with an unknown bias

R: data rejected

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

Sample holding times for groundwater and effluent samples and instrumental tune fragmentations were within acceptance ranges. Blanks were free of contamination. Surrogate and internal standard recoveries were within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. An MS/MSD was analyzed using MW-06 as the matrix. All QC elements associated with the MS/MSD fell within project criteria. The blind field duplicate correlations between MW-02R-0421 and the duplicate failed. The VOC concentrations in this location are typically high, as was reported for this sample, however the duplicate reported ND which does not correlate with the historic data. As a result the detections in MW-02R are gualified as rejected and unusable.

**Table 2: Precision Calculations PAHs** 

Compound	MW-02R	FD	RPD
Benzene	708	ND	NC/R
Ethylbenzene	125	ND	NC/R
Toluene	76.6	ND	NC/R
Xylene (Total)	288	ND	NC/R
m&p-Xylenethrene	187	ND	NC/R
o-Xylene	101	ND	NC/R
ual microgram per liter	DDD relative persent difference		

 $\mu g/L$ -microgram per liter RPD - relative percent difference

NC: Not calculated - concentration not confirmed



# PAHs by EPA8270D/NYSDEC ASP

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

The method blank associated with the 2021 data reported no detections above reporting level. For the April 2021 sampling event, **MW-02R-0421** and **FD-0421** were diluted due to the presence of a non-target analyte. Reporting limits are elevated.

Surrogate recoveries were within criteria.

The laboratory control spike recoveries and precision indicate the methods were within laboratory control.

An MS/MSD was analyzed using **MW-06** as the matrix for the April 2021 sampling event. The matrix spike/matrix spike duplicate recoveries and relative percent differences were within laboratory-provided limits.

The blind field duplicate correlations of **MW-02R-0421** and **FD-0421**were calculated. The RPDs between **MW-02R 2020** and the duplicate are tabulated below, only one compound had calculated variance within EPA criteria (<30%).

**Table 1: Precision Calculations PAHs** 

Compound	MW-02R	FD	RPD
Acenaphthene	61.6	41.4	<mark>39.2</mark>
Acenaphthylene	33.7	22	<mark>42.0</mark>
Fluorene	14.1	9.6	38.0
Naphthalene	1140	609	<mark>60.7</mark>
Phenanthrene	10.6	8.1	26.7

μg/L-microgram per liter RPD - relative percent difference

# Cvanide by EPA 9012B /NYSDEC ASP

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

The laboratory control spike recoveries and precision indicate the method is within laboratory control. An MS/MSDs were analyzed using MW-06-0421 and a sample unassociated with the site. The recovery for cyanide was low for the MW-06-0421, and the compound is qualified as estimated with a possible low bias in the sample.

The blind field duplicate correlations of MW-02R were within project criteria.



**Table 4: Precision Calculations Cyanide** 

Compound	MW-02R	FD	RPD
Cyanide	1.9	1.9	0

μg/L-microgram per liter RPD - relative percent difference

NC: Not calculated - concentration unreliable/too low

fortwick\_

# **Data Package Completeness**

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

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

Sincerely,

Bonnie Janowiak, Ph.D.

Senior Chemist



# **SAMPLE SUMMARY**

Project: National Grid - Ilion East, NY

Pace Project No.: 30417109

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30417109001	MW-02R-0421	Water	04/22/21 09:55	04/23/21 09:45
30417109002	MW-03-0421	Water	04/22/21 12:05	04/23/21 09:45
30417109003	MW-06-0421	Water	04/22/21 10:25	04/23/21 09:45
30417109004	MW-06-MS-0421	Water	04/22/21 10:25	04/23/21 09:45
30417109005	MW-06-MSD-0421	Water	04/22/21 10:25	04/23/21 09:45
30417109006	MW-07-0421	Water	04/22/21 11:20	04/23/21 09:45
30417109007	MW-08R-0421	Water	04/22/21 12:50	04/23/21 09:45
30417109008	MW-13-0421	Water	04/22/21 13:55	04/23/21 09:45
30417109009	FD-0421	Water	04/22/21 00:00	04/23/21 09:45
30417109010	Trip Blanks	Water	04/22/21 00:00	04/23/21 09:45

# **REPORT OF LABORATORY ANALYSIS**



Project: National Grid - Ilion East, NY

Pace Project No.: 30417109

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: May 07, 2021

### **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.

### 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:**

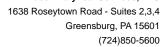
Analyte Comments:

QC Batch: 445533

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

- FD-0421 (Lab ID: 30417109009)
  - 2-Methylnaphthalene
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene

### **REPORT OF LABORATORY ANALYSIS**





Project: National Grid - Ilion East, NY

Pace Project No.: 30417109

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

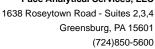
Date: May 07, 2021

Analyte Comments: QC Batch: 445533

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

- FD-0421 (Lab ID: 30417109009)
  - 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-02R-0421 (Lab ID: 30417109001)
  - 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 - Ilion East, NY

Pace Project No.: 30417109

Method: EPA 8260C Description: 8260C MSV

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

Date: May 07, 2021

### **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.

# Method Blank:

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

# **Laboratory Control Spike:**

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

### Matrix Spikes:

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

### **Additional Comments:**

# **REPORT OF LABORATORY ANALYSIS**



Project: National Grid - Ilion East, NY

Pace Project No.: 30417109

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

**Date:** May 07, 2021

### **General Information:**

9 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: 445528

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30416862009,30417109002

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

- MS (Lab ID: 2150601)
  - Cyanide
- MS (Lab ID: 2150624)
  - Cyanide
- MSD (Lab ID: 2150602)
  - Cyanide
- MSD (Lab ID: 2150625)
  - Cyanide

QC Batch: 445531

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30417109003

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

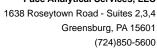
- MS (Lab ID: 2150626)
  - Cyanide
- MSD (Lab ID: 2150627)
  - Cyanide

R1: RPD value was outside control limits.

- MSD (Lab ID: 2150627)
  - Cyanide

# **Additional Comments:**

### **REPORT OF LABORATORY ANALYSIS**





Project: National Grid - Ilion East, NY

Pace Project No.: 30417109

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

**Date:** May 07, 2021

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

# **REPORT OF LABORATORY ANALYSIS**



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 Blacksburg, VA 24060

T. 800.662.5067

December 22, 2021

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

RE: Data Usability Summary Report for National Grid- Ilion, East Ave.: Data Package Pace Analytical Job No. 30447620

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the October 2021 sampling events at the National Grid Ilion, East Avenue site. Six aqueous samples, a matrix spike/matrix spike duplicate pair, a trip blank and a field duplicate were collected from the main site. These samples were processed for volatile organic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), cyanide and polynuclear aromatic hydrocarbons (PAHs).

Analytical methodologies are those of the USEPA SW846 with additional requirements of the NYSDEC ASP.

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

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

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

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



Table 1 – Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
All samples	J-/UJ-	PAHs	Extracted one day beyond hold time. Data is usable and the bias is likely small
MW-06R	J-	Cyanide	Low MS recovery
MW-02R	J	Acenaphthylene and Phenanthrene	RPD>30%

J-/UJ-: estimated detect/estimated non-detect with a possible low bias R: data rejected

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

Sample holding times for groundwater and effluent samples and instrumental tune fragmentations were within acceptance ranges. Blanks were free of contamination. Surrogate and internal standard recoveries were within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. An MS/MSD was analyzed using MW-06-1021 as the matrix. All QC elements associated with the MS/MSD fell within project criteria. The blind field duplicate correlations between MW-02R-1021 and the duplicate passed criteria, and no qualifications were required.

**Table 2: Precision Calculations VOCs** 

Compound	MW-02R	FD	RPD
Benzene	819	825	0.7
Ethylbenzene	150	144	4.1
Toluene	151	148	2.0
Xylene (Total)	344	335	2.7
m&p-Xylenes	223	217	2.7
o-Xylene	121	118	2.5
μg/L-microgram per liter	RPD - relative percent difference		

PAHs by EPA8270D/NYSDEC ASP

Holding times for extraction were not met; the samples were extracted approximately 24 hours outside of hold time. PAHs are recalcitrant to degradation, and although the data is qualified per EPA guidance, the data is usable, and the possible low bias does not significantly impact the data. Blanks show no contamination. Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines.

The method blank associated with the 2021 data reported no detections above reporting level. For the October 2021sampling event, **FD-1021** was diluted due to the presence of a non-target analyte. Reporting limits are elevated.



Surrogate recoveries were within criteria.

The laboratory control spike recoveries and precision indicate the methods were within laboratory control.

There was an MS/MSD analyzed using **MW-06-1021** as the matrix for the October 2021 sampling event. The matrix spike/matrix spike duplicate recoveries and relative percent differences were within laboratory-provided limits.

The blind field duplicate correlations of **MW-02R-1021** and **FD-1021** were calculated. The RPDs between **MW-02R-1021** and the duplicate are tabulated below, highlighted compounds had calculated variance outside EPA criteria (<30%).

**Table 1: Precision Calculations PAHs** 

Compound	MW-02R	FD	RPD % (maximum 30%)
Acenaphthene	57.3	63.6	10.4
Acenaphthylene	9.9	16.2	48.3
Anthracene	0.15	ND	NC
Fluoranthene	0.15	ND	NC
Fluorene	14.0	17.3	21.1
Phenanthrene	0.68	2.9	124
μg/L-microgram per liter ND: not detected	RPD - relative percent difference	NC: Not calculat	ed – concentration not confirmed

# Cvanide by EPA 9012B /NYSDEC ASP

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

The within criteria recoveries and precision of the laboratory control spike indicate the method is within laboratory control. There was an MS/MSD analyzed using **MW-06-1021** as the matrix for the October 2021 sampling event. The recovery for cyanide was low for the **MW-06-1021** matrix spikes, and the compound is qualified as estimated with a possible low bias in the samples.

The blind field duplicate correlations of MW-02R-1021 were within project criteria.

**Table 4: Precision Calculations Cyanide** 

Compound	MW-02R	FD	RPD
Cyanide	0.57	0.48	17.1
μg/L-microgram per liter	RPD - relative percent difference		



# **Data Package Completeness**

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

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

Sincerely,

Bonnie Janowiak, Ph.D.

anowisk\_

**Senior Chemist** 



# **SAMPLE SUMMARY**

Project: National Grid - Ilion, NY

Pace Project No.: 30447620

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30447620001	MW-02R-1021	Water	10/21/21 10:15	10/22/21 09:30
30447620002	MW-03-1021	Water	10/21/21 10:40	10/22/21 09:30
30447620003	MW-06-1021	Water	10/21/21 11:30	10/22/21 09:30
30447620004	MW-06-MS-1021	Water	10/21/21 11:30	10/22/21 09:30
30447620005	MW-06-MSD-1021	Water	10/21/21 11:30	10/22/21 09:30
30447620006	MW-07-1021	Water	10/21/21 10:00	10/22/21 09:30
30447620007	MW-08R-1021	Water	10/21/21 11:05	10/22/21 09:30
30447620008	MW-13-1021	Water	10/21/21 11:50	10/22/21 09:30
30447620009	FD-1021	Water	10/21/21 00:01	10/22/21 09:30
30447620010	Trip Blanks	Water	10/21/21 00:01	10/22/21 09:30

# **REPORT OF LABORATORY ANALYSIS**



Project: National Grid - Ilion, NY

Pace Project No.: 30447620

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: November 05, 2021

#### **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.

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

• FD-1021 (Lab ID: 30447620009)

### **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.

- FD-1021 (Lab ID: 30447620009)
- MW-02R-1021 (Lab ID: 30447620001)
- MW-03-1021 (Lab ID: 30447620002)
- MW-06-1021 (Lab ID: 30447620003)
- MW-06-MS-1021 (Lab ID: 30447620004)
- MW-06-MSD-1021 (Lab ID: 30447620005)
- MW-07-1021 (Lab ID: 30447620006)
- MW-08R-1021 (Lab ID: 30447620007)
- MW-13-1021 (Lab ID: 30447620008)

# **Sample Preparation:**

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

# Initial Calibrations (including MS Tune as applicable):

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

### **Continuing Calibration:**

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

### **Internal Standards:**

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

### Surrogates:

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

# Method Blank:

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

### **Laboratory Control Spike:**

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

# Matrix Spikes:

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

### **REPORT OF LABORATORY ANALYSIS**



Project: National Grid - Ilion, NY

Pace Project No.: 30447620

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: November 05, 2021

# **Additional Comments:**

# **REPORT OF LABORATORY ANALYSIS**

1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600



### **PROJECT NARRATIVE**

Project: National Grid - Ilion, NY

Pace Project No.: 30447620

Method: EPA 8260C Description: 8260C MSV

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

Date: November 05, 2021

### **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.

# Method Blank:

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

# **Laboratory Control Spike:**

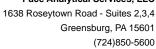
All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

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

### **Additional Comments:**

### **REPORT OF LABORATORY ANALYSIS**





Project: National Grid - Ilion, NY

Pace Project No.: 30447620

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

Date: November 05, 2021

### **General Information:**

9 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: 470401

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

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

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

# **Additional Comments:**

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

### **REPORT OF LABORATORY ANALYSIS**