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

national**grid**

August 9, 2022

Michael Squire New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway – 11th Floor Albany, New York 12233-7014

Re: National Grid Little Falls (Mill Street) Non-Owned Former MGP Site NYSDEC Site No. 622034 Little Falls, New York 2022 Periodic Review Report

Dear Mr. Squire:

Enclosed for your review is the 2022 Periodic Review Report (PRR) for the National Grid Ogdensburg Former MGP Site. The PRR pertains to the period from April 1, 2021 through August 1, 2022 and includes a brief report and Institutional Controls/Engineering Controls (IC/EC) Certification Form.

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

Sincerely,

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

Reporting Period – April 1, 2021 through August 1, 2022

I. Introduction

A. Brief Site Summary –

The Little Falls Former Manufactured Gas Plant (MGP) Site (the Site) is located on an approximate 1.35 acre lot, located on the south side of East Mill Street in Little Falls, New York (refer to Figure 1 Site Location Map). The Site is the western portion of an approximately 6.5-acre property currently owned by the Feldmeier Equipment, Inc. (Feldmeier). Manufactured gas was produced at the Site from approximately 1853 until 1907. The MGP was decommissioned in the early 1900's, and since then the site has been used for various industrial purposes, which include the manufacturing of furniture and stainless steel tanks. Currently a paved parking lot and the western portion of the Feldmeier tank manufacturing building occupy the former MGP.

An investigation of the Site began in 1997, to support the property transfer to Feldmeier, with a Phase I Environmental Site Assessment (ESA) and Phase II ESA (1998) which identified suspected MGP-related impacts near the historical MGP operations at the Site. As a result, National Grid implemented a site characterization (SC) and a remedial investigation (RI) at the site under a multi-site VCO with the NYSDEC between 2002 and 2006.

The RI identified that the highest concentration of constituents of concern (COCs) are primarily the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and xylenes (collectively, BTEX), the general class of semi-volatile organic compounds (SVOCs) known as polycyclic aromatic hydrocarbons (PAHs), were localized to the locations of the former onsite gas holder. Significant MGP-related impacts were not encountered at the former offsite gas holder.

- B. **Remedial Program Effectiveness** During the reporting period (April 1, 2021 to August 1, 2022) the long-term remedial objectives were met for the site.
- C. **Remedial Program Compliance** The major elements within the Institutional Control/Engineering Control(s) (IC/EC) Plan are in compliance.
- D. **Remedial Program Recommendations** It is recommended that no changes be made to the IC/EC Plan. It is recommended that an annual Periodic Review Report (PRR) be submitted. The next PRR submittal will cover the period August 1, 2022 to August 1, 2023.

Reporting Period – April 1, 2021 through August 1, 2022

II. Site Overview

A. Site Location and Boundaries -

The Site is located on the south side of East Mill Street in Little Falls, County of Herkimer, New York (Figure 1 presents the site location map). The Site is an approximate 1.35-acre area and is bounded by East Mill Street to the north, George Lumber and Building Materials Company to the west, the Mohawk River to the south, and extends into the tank manufacturing building to the east. Currently, the property is a paved parking area, and the western portion of the Feldmeier tank manufacturing building.

B. Regulatory History and Remedy Features -

The Site was remediated in 2009 in accordance with the *Remedial Action Work Plan* (Arcadis, 2007). This PRR is being completed in compliance with Section 6.3 of the NYSDEC – approved Site Management Plan (SMP) for the project. A Deed of Restrictions and Covenants (DCR) was placed on the property in February 2018 by the Owner, and is included in Appendix A of the *Final Engineering Report* (Arcadis, 2020).

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

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

IV. IC/EC Plan Compliance Report

A. IC/EC Requirements and Compliance

1. IC/EC Controls

The ICs/ECs:

- Soil Cover System: Annual site inspection of the cover system includes identification of any damage to the cover. National Grid conducts quarterly inspections for internal security purposes. See Attachment 1 for the Site Inspection Forms.
- Monitoring Wells Associated with Monitored Natural Attenuation (MNA): Annual groundwater sampling of the monitoring well

Reporting Period – April 1, 2021 through August 1, 2022

system will be conducted, until either water quality is consistently below NYSDEC standards, or has become asymptotic at an acceptable level over an extended period.

- 2. IC/EC Goals Each goal is being met and/or working effectively.
- 3. IC/EC Corrective Measures No deficiencies were noted during the site inspections.
- 4. **IC/EC Conclusions/Recommendations** The EC program is in compliance and there are no recommendations for the program at this time.
- 5. IC/EC Certification Refer to PRR Form Attachment 2 for the certification.
- V. Monitoring Plan Compliance Report The Annual Monitoring Report was submitted to the NYSDEC on February 10, 2022. See Attachment 3 for a copy of the Annual Monitoring Report.
- VI. Operation & Maintenance (O&M) Plan Compliance Report Not Applicable

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with Site Management Plan (SMP)
 - 1. **Requirements** All IC/EC Plan requirements were met during this reporting period.
 - 2. **Exposure Pathways** There are no new completed exposure pathways resulting in unacceptable risk.
 - 3. **Proposed Plans and Schedule to Meet Compliance** No plan proposed.
- B. **Performance and Effectiveness of the Remedy** The remedy as described in the Site Management Plan and executed by National Grid has been effective in meeting the program goals.

Reporting Period – April 1, 2021 through August 1, 2022

- C. **Future PRR Submittals** The frequency of PRR Submittals should remain annual. Therefore, the next PRR reporting period will cover August 1, 2022 through August 1, 2023.
- VIII. Additional Guidance Not needed.

Reporting Period – April 1, 2021 through August 1, 2022

REFERENCES

Arcadis, 2011. "Site Management Plan, Little Falls (Mill Street) Non-Owned Former MGP Site", March 2011.

Arcadis, 2020. "Final Engineering Report, Little Falls (Mill Street) Former Manufactured Gas Plant Site", December 2020.

Reporting Period – April 1, 2021 through August 1, 2022

Attachment 1: Site Inspection Forms

Date: 6/21/2022 Technician: KL

Weather:

Time:

13:00 Partly Cloudy 66

Exterior Cover System				
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:	
Evidence of any Intrusive Activities	YES	NO	COMMENTS:	
Evidence of Saw Cutting	YES	NO	COMMENTS:	
Evidence of Excavation or Trenching	YES	NO	COMMENTS:	
Burrowing Animals	YES	NO	COMMENTS:	

Interior Slab (West Side of Feldmeier Building)						
Sub-Slab Activities Being Performed YES NO COMMENTS:						
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Excavation or Tunneling						

Site Monitoring Wells				
Well ID.	Location Secure			
B-MW-3	YES	NO		
FW-MW-1	YES	NO		
FW-MW-2	YES	NO		
FW-MW-3	YES	NO		
FW-MW-5	YES	NO		
MW-101RD	YES	NO		
MW-102R	YES	NO		
MW-103R	YES	NO		
RW-1	YES	NO		
RW-2	YES	NO		
RW-3	YES	NO		

Site DNAPL Recovery Wells					
Well ID. DTW DTP DTB Thickness					
RW-1	N/A	N/A	21.95		
RW-2	N/A	N/A	19.42		
RW-3 N/A N/A 31.70					
			• • •	<u> </u>	

Levels and Recovery in March and September Only

Date: 3/23/2022 Technician: KL Time: Weather: 13:00 Cloudy 43

Exterior Cover System				
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:	
Evidence of any Intrusive Activities	YES	NO	COMMENTS:	
Evidence of Saw Cutting	YES	NO	COMMENTS:	
Evidence of Excavation or Trenching	YES	NO	COMMENTS:	
Burrowing Animals	YES	NO	COMMENTS:	

Interior Slab (West Side of Feldmeier Building)						
Sub-Slab Activities Being Performed YES NO COMMENTS:						
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Excavation or Tunneling						

Site Monitoring Wells				
Well ID.	Location Secure			
B-MW-3	YES	NO		
FW-MW-1	YES	NO		
FW-MW-2	YES	NO		
FW-MW-3	YES	NO		
FW-MW-5	YES	NO		
MW-101RD	YES	NO		
MW-102R	YES	NO		
MW-103R	YES	NO		
RW-1	YES	NO		
RW-2	YES	NO		
RW-3	YES	NO		

Site DNAPL Recovery Wells						
Well ID.	Well ID. DTW DTP DTB Thicknes					
RW-1	N/A	NP	21.95			
RW-2	15.25	NP	19.42			
RW-3	13.93	NP	31.70	trace on probe		
Louisle and F		Marah and	Contombo			

Levels and Recovery in March and September Only

RW-1 was buried under shipping materials unable to access

Date: 12/8/2021 Technician: KL

Weather:

Time:

8:30 Snow 28

Exterior Cover System				
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:	
Evidence of any Intrusive Activities	YES	NO	COMMENTS:	
Evidence of Saw Cutting	YES	NO	COMMENTS:	
Evidence of Excavation or Trenching	YES	NO	COMMENTS:	
Burrowing Animals	YES	NO	COMMENTS:	

Interior Slab (West Side of Feldmeier Building)						
Sub-Slab Activities Being Performed YES NO COMMENTS:						
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Excavation or Tunneling						

Site Monitoring Wells				
Well ID.	Location Secure			
B-MW-3	YES	NO		
FW-MW-1	YES	NO		
FW-MW-2	YES	NO		
FW-MW-3	YES	NO		
FW-MW-5	YES	NO		
MW-101RD	YES	NO		
MW-102R	YES	NO		
MW-103R	YES	NO		
RW-1	YES	NO		
RW-2	YES	NO		
RW-3	YES	NO		

Site DNAPL Recovery Wells						
Well ID. DTW DTP DTB Thicknes						
RW-1	N/A	NP	21.95			
RW-2 N/A NP 19.42						
RW-3 N/A NP 31.70						
			<u> </u>	A <i>i</i>		

Levels and Recovery in March and September Only

Date: 9/9/2021 Technician: KL

Weather:

Time:

8:30 Cloudy 64

Exterior Cover System					
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:		
Evidence of any Intrusive Activities	YES	NO	COMMENTS:		
Evidence of Saw Cutting	YES	NO	COMMENTS:		
Evidence of Excavation or Trenching	YES	NO	COMMENTS:		
Burrowing Animals	YES	NO	COMMENTS:		

Interior Slab (West Side of Feldmeier Building)					
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:		
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:		
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:		

Site Monitoring Wells					
Well ID.	Location	Secure			
B-MW-3	YES	NO			
FW-MW-1	YES	NO			
FW-MW-2	YES	NO			
FW-MW-3	YES	NO			
FW-MW-5	YES	NO			
MW-101RD	YES	NO			
MW-102R	YES	NO			
MW-103R	YES	NO			
RW-1	YES	NO			
RW-2	YES	NO			
RW-3	YES	NO			

Site DNAPL Recovery Wells						
Well ID. DTW DTP DTB Thickness						
RW-1	14.69	NP	21.95			
RW-2	15.23	NP	19.42			
RW-3 18.08 NP 31.70						
			• • •	<u> </u>		

Levels and Recovery in March and September Only

Date: 6/30/2021 Technician: KL

Weather:

Time:

9:45 Partly Cloudy 88

Exterior Cover System					
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:		
Evidence of any Intrusive Activities	YES	NO	COMMENTS:		
Evidence of Saw Cutting	YES	NO	COMMENTS:		
Evidence of Excavation or Trenching	YES	NO	COMMENTS:		
Burrowing Animals	YES	NO	COMMENTS:		

Interior Slab (West Side of Feldmeier Building)					
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:		
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:		
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:		

Site Monitoring Wells					
Well ID.	Location	Secure			
B-MW-3	YES	NO			
FW-MW-1	YES	NO			
FW-MW-2	YES	NO			
FW-MW-3	YES	NO			
FW-MW-5	YES	NO			
MW-101RD	YES	NO			
MW-102R	YES	NO			
MW-103R	YES	NO			
RW-1	YES	NO			
RW-2	YES	NO			
RW-3	YES	NO			

Site DNAPL Recovery Wells						
Well ID. DTW DTP DTB Thickness						
RW-1	n/a	n/a	21.95			
RW-2	n/a	n/a	19.42			
RW-3	n/a	n/a	31.70			
	-		<u> </u>	<u> </u>		

Levels and Recovery in March and September Only

Reporting Period – April 1, 2021 through August 1, 2022

Attachment 2: PRR Certification Form



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	e No.	622034		Site Details			Box 1	
		I - Little Falls						
Site City Co	e Address: I y/Town: Litt unty:Herkim e Acreage:	E. Mill St le Falls er	Zip Code: 1336	5				
Re	porting Peric	od: April 01, 2	2021 to August	01, 2022				
							YES	NO
1.	Is the inform	mation above	correct?				Х	
	If NO, inclu	de handwritte	en above or on	a separate sheet.				
2.			te property bee ring this Report	n sold, subdivided ing Period?	, merged, or unde	rgone a		X
3.		been any cha RR 375-1.11		e site during this F	Reporting Period			X
4.			and/or local pe ing this Reporti	rmits (e.g., buildin ng Period?	g, discharge) beer	n issued		X
				hru 4, include do usly submitted wi				
5.	Is the site o	currently unde	ergoing develop	ment?				Х
							Box 2	
							YES	NO
6.	Is the curre	ent site use co	onsistent with th	e use(s) listed bel	w?		Х	
7.	Are all ICs	in place and t	functioning as c	lesigned?		X		
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.							
AC	Corrective M	easures Wor	k Plan must be	submitted along v	vith this form to a	ddress t	hese iss	ues.
Sig	nature of Ow	ner. Remedia	Party or Desig	nated Representativ		Date		

SITE NO. 62203	4	Box 3
Description	of Institutional Controls	
Parcel	Owner	Institutional Control
	Steven P. Stucker	Oraviad Water Lies Destriction
		Ground Water Use Restriction Landuse Restriction
		Site Management Plan
 The Site may of institutional and e All engineering All engineering All engineering The use of groud determined by the industrial purpose 	only be used for industrial enterprises provid engineering controls identified in the SMP ar controls must be operated and maintained controls must be inspected at the frequence undwater underlying the Site is prohibited we Department or Relevant Agency, to render	re employed. as specified in the SMP. by and in the manner defined in the SMP. without necessary water quality treatment, as it safe for use as drinking water or for written approval to do so from the NYSDEC.
		Box 4
Description	of Engineering Controls	
<u>Parcel</u>	Engineering Contro	<u>1</u>
	Cover System Monitoring Wells	
which comprises t	ining MGP-related impacts in soil at the Site the existing Feldmeier manufacturing buildir n edge of the site, and an asphalt pavement	ng, a concrete pad supporting a pole barn

		Box 5
	Periodic Review Report (PRR) Certification Statements	
	I certify by checking "YES" below that:	
	a) the Periodic Review report and all attachments were prepared under the direction o reviewed by, the party making the Engineering Control certification;	f, and
	b) to the best of my knowledge and belief, the work and conclusions described in this of are in accordance with the requirements of the site remedial program, and generally according produces and the information procented is accurate and compete	
	engineering practices; and the information presented is accurate and compete. YES	NO
	X	
	For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:	
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Departme	nt;
	(b) nothing has occurred that would impair the ability of such Control, to protect public the environment;	health an
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;	
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and	
	(e) if a financial assurance mechanism is required by the oversight document for the s mechanism remains valid and sufficient for its intended purpose established in the doc	
	YES	NO
	X	
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
	A Corrective Measures Work Plan must be submitted along with this form to address these is	sues.
-	Signature of Owner, Remedial Party or Designated Representative Date Date	

Γ

IC CERTIFICATIONS SITE NO. 622034	Box 6
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 21 Penal Law.	
IGerald Cresap, PE at _6780 Northern Blvd. Suite 100, East Syrcause, NY 1 print name print business address	3057_,
am certifying as _agent for National Grid(Owner or Remedia	al Party)
for the Site named in the Site Details Section of this form. OF NEW OF 	1-2022
POFESSIONAL S	

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I ___Gerald Cresap, PE_____ at _6780 Northern Blvd. Suite 100, East Syracuse, NY 13057__, print name print business address

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

9/2072 Date Signature of Qualified Environmental Professional, the Owner or Remedial Party, Rendering Certification PE)

Reporting Period – April 1, 2021 through August 1, 2022

Attachment 3: Annual Monitoring Report

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

national**grid**

February 10, 2022

Michael Squire Division of Environmental Remediation New York State Department of Environmental Conservation 625 Broadway – 11th Floor Albany, NY 12233

<u>Re:</u> National Grid Little Falls (Mill Street) Non-Owned Former MGP Site Little Falls, New York 2021 Groundwater and NAPL Monitoring Results VCO Index No. D0-0001-0011 Site No. V00470

Dear Mr. Squire:

Attached for your information is the 2021 Groundwater Monitoring Report detailing the annual groundwater monitoring event and OM&M activities conducted from January 1, 2021, to December 31, 2021, at the National Grid Little Falls (Mill Street) Site. Site activities were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan (ARCADIS; 2007) and Site Management Plan (ARCADIS; 2011).

The annual groundwater samples were collected on September 9, 2021. The results of this event indicate that the groundwater quality is consistent with previous sampling events.

Please contact me at 315-428-5652 if you have any questions.

Sincerely,

. UT/2-

for SPS

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

2021 Groundwater Monitoring Report



National Grid Little Falls (Mill Street) Site 575 Mill Street Little Falls, NY

February 2022

Version 1





2021 Groundwater Monitoring Report

National Grid Little Falls (Mill Street) Site 575 Mill Street Little Falls, NY

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

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

GES Project: 0603275.125340.221

Date: February 10, 2022

Devin T. Shay, PG Program Manager / Principal Hydrogeologist



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Tables

Table 1 – Groundwater Elevation Measurements

Table 2 – Groundwater Analytical Results

Appendices

- Appendix A Quarterly Inspection Forms
- Appendix B Well Sampling Field Data

Appendix C – Data Usability Summary Report and Analytical Data



Acronyms

AWQS	Ambient Water Quality Standards						
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes						
DUSR	Data Usability Summary Report						
FER	Final Engineering Report						
GES	Groundwater & Environmental Services, Inc.						
MGP	Manufactured Gas Plant						
NAPL	Light Non-Aqueous Phase Liquid						
NYSDEC OM&M	New York State Department of Environmental Conservation Operation, Maintenance, and Monitoring						
Pace	Pace Analytical Services, LLC						
RAWP	Remedial Action Work Plan						
SMP	Site Management Plan						
SVOC	Semi-volatile organic compound						
TAL	Target Analyte List						
TCL	Target Compound List						
VOC	Volatile Organic Compound						



1 Introduction

1.1 Overview

Groundwater & Environmental Services, Inc. (GES) has prepared this 2021 Groundwater Monitoring Report (covering January 1, 2021 – December 31, 2021) for the Little Falls (Mill Street) Site, Little Falls, New York. The groundwater and non-aqueous phase liquid (NAPL) monitoring activities described in this letter were completed as part of the post-remedial monitoring activities outlined in the New York State Department of Environmental Conservation- (NYSDEC-) approved Remedial Action Work Plan (RAWP) prepared by ARCADIS of New York, Inc., (ARCADIS, 2007) and the Site Management Plan (SMP) (ARCADIS, 2011). The RAWP was approved in a letter dated March 11, 2008, from Mr. Bernard Franklin of the NYSDEC to Mr. James F. Morgan of National Grid. The SMP was approved in a letter dated May 5, 2011, from the NYSDEC to National Grid.

Groundwater monitoring has been conducted at the Site in order to evaluate the effectiveness of remedial activities previously completed at the Site and to monitor long-term groundwater quality trends. Currently, groundwater sampling at the Former MGP Site is performed on an annual basis.

The following Operation, Maintenance, and Monitoring (OM&M) activities conducted during this reporting period are summarized below:

- Quarterly site inspections, including checks on the Site structures, the exterior cover system, the interior Feldmeier Building concrete slab, riverbank, groundwater monitoring wells, NAPL wells, and storm-water features that could impact the remedy.
- Quarterly groundwater elevation data.
- Annual NAPL monitoring and collection, if necessary.
- Annual groundwater sampling, analysis and data validation. Water samples are submitted to Pace Analytical Services, LLC (Pace) for laboratory analysis of target compound list (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), and target analyte list (TAL) inorganics (including cyanide) for comparison to NYSDEC Ambient Water Quality Standards (AWQS).
- Any site maintenance that comes about as a result of the quarterly inspections.

1.2 Site Description

The Little Falls (Mill Street) Former Manufactured Gas Plant Site located in Little Falls, New York is comprised of approximately 6.5 acres of land and is currently owned by Feldmeier (refer to **Figure 1** – **Site Location Map** and **Figure 2** – **Site Map**). As shown on the figures, the Site is located north of the Mohawk River, east of George Lumber and Building Materials Company (George Lumber), south of East Mill Street, and west of the line of demarcation. The Site is located on the western portion of



the approximately 6.5 acre property and is occupied by a paved parking lot, and the western portion of a tank manufacturing building owned by Feldmeier. Some vegetated areas are present along the margins of the parking lot, and in the area south of the tank manufacturing building along the bank of the Mohawk River.

The remedial action plan in place at the site was substantially completed in August 2009. The Final Engineering Report (FER) was submitted to NYSDEC in October 2019, and written approval from NYSDEC was received on April 1, 2021.



2 Quarterly Site Inspections and Groundwater Monitoring Activities

2.1 Quarterly Site Inspections

GES conducted quarterly site inspections during this reporting period on March 23, June 30, September 9, and December 8, 2021.

In general, the Site is in good condition and in compliance. The exterior cover system is intact. No visible saw cutting, holes from burrowing animals, or evidence of any other intrusive activities were noted in 2021. The groundwater monitoring wells and NAPL wells are secured and operable.

It should be noted that four (4) piezometers that were part of the SMP requirements to conduct groundwater static level measurements were never located: PZ-102, PZ-103, PZ-105, and PZ-106. It is believed these piezometers have long since been removed or covered during Feldmeier site modifications (i.e., storage shed installation and/or asphalt/gravel road installation). National Grid believes there are ample groundwater wells for obtaining water table measurements and these four piezometers are not necessary. The new storage shed and existing wells were resurveyed in January 2016.

Attachment A includes the Quarterly Site Inspection Forms.

2.2 Groundwater Well Gauging

Groundwater level measurements are collected at the Site to accomplish the following:

• To determine the general groundwater flow direction on site.

Annual gauging field data is presented in **Table 1**. Based on the September 2021 groundwater level measurements, groundwater in the overburden/shallow bedrock beneath the Site flows to the south (which is consistent with the local groundwater flow direction observed during the RI and previous monitoring events). There is a groundwater depression observed near the Mohawk River near recovery well RW-3, where the groundwater is likely mimicking the drop in the bedrock surface as it approaches the Mohawk River. A potentiometric surface map for overburden/shallow bedrock groundwater developed from the September groundwater elevations is presented on **Figure 3**. Based on the September 2021 groundwater level measurements from the one deep bedrock well at the Site (well MW-101RD), an upward hydraulic gradient exists between the deep bedrock unit and the overburden/shallow rock unit at the Site, indicating that the groundwater from the deep bedrock unit likely discharges to the Mohawk River.

2.3 Annual NAPL Monitoring and Collection

Annual NAPL monitoring was conducted at on-site recovery wells RW-1, RW-2, and RW-3, and monitoring wells B-MW-3, FWMW-1, FWMW-2, FWMW-3, FWMW-5, MW-101RD, MW-102R, and MW-103R during each annual monitoring event. NAPL observations were documents on the Site inspection forms as presented in **Appendix A**. A summary of NAPL observations where



NAPL was present from April 2011 through the 2021 monitoring event (including NAPL thickness measured for previous monitoring events) is presented below.

Based on the absence of detected NAPL at recovery wells RW-1, RW-2, RW-3, and monitoring well MW-101RD, no NAPL recovery efforts were attempted during the September 2021 gauging event.

	Oct	Dec	June	Dec	Aug	Dec	June	Oct	Oct	Oct	Oct	Oct	Sept	Sept
Well	2011	2011	2012	2012	2013	2013	2014	2015	2016	2017	2018	2019	2020	2021
RW-1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
RW-2	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
RW-3	Trace	Trace	0.12	0.48	0.96	0.96	2.04	NP	NP	NP	Trace	NP	Trace	NP
MW-101RD	NP	NP	NP	NP	NP	Trace	NP	NP	NP	NP	NP	NP	NP	NP

Presence/Thickness of NAPL (in inches)

NP - NAPL was not present

2.4 Groundwater Well Sampling and Analysis

Groundwater samples were collected from eight (8) monitoring wells B-MW-3, FWMW-1, FWMW-2, FWMW-3, FWMW-5, MW-101RD, MW-102R, and MW-103R, on September 9, 2021. The wells were purged using a peristaltic pump. Field Measurements of pH, conductivity, turbidity, dissolved oxygen, temperature, total dissolved solids and oxidation-reduction potential were recorded using a Horiba U-52 water quality meter during sample collection. Samples were collected once field parameters stabilized. Field monitoring data and the chain-of-custody record are included in **Appendix B**.

Eight aqueous field samples, a field duplicate, and trip blank were analyzed for TCL VOCs, TCL SVOCs, and TAT inorganics. The samples were analyzed by Pace in accordance with the NYSDEC Analytical Services Protocol. The Analytical Lab Report and Data Usability Summary Report are presented in **Appendix C.** Analytical results are summarized in **Table 2**. A BTEX (benzene, toluene, ethylbenzene, xylenes) contour map is shown on **Figure 4**. A naphthalene contour map is shown on **Figure 5**.

VOCs were detected in seven of the eight groundwater monitoring wells that were sampled during the September 2021 groundwater sampling event. There were detections of 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, benzene, chloroform, cis-1,2-Dichloroethene, ethylbenzene, toluene, trans-1,2-Dichlorothene, trichloroethene, vinyl chloride, and xylenes. SVOCs were detected in three of the eight groundwater samples collected. Detections of SVOCs include acenaphthene, anthracene, carbazole, dibenzofuran, flurorathene, fluorene, phenanthrene, and pyrene.

TAT inorganics were detected in all eight groundwater samples collected in September 2021. Iron concentrations in six of the eight samples exceeded the AWQS criteria. Detections of sodium exceeded in all samples, except in monitoring wells B-MW-3 and FWMW-1. Manganese



exceeded the quality criteria in FWMW-2, MW-101RD, and MW-103R. Nickel was the only inorganic not detected in any of the groundwater samples collected. The analytical results for the inorganics as well as VOCs and SVOCs are summarized on **Table 2**.



3 Conclusions and Recommendations

3.1 Conclusions

Based on the results of the past year's activities, the following conclusions were made:

- Quarterly site inspections demonstrate that the site is in good condition and in compliance.
- Groundwater beneath the Site appears to flow in a general south direction towards the Mohawk River.
- NAPL was not detected in any monitoring well or recovery well during the September 2021 monitoring event.
- BTEX was detected in FWMW-3, FWMW-5, MW-101RD, MW-102R, and MW-103R. Naphthalene was not detected in any monitoring well. These detections are generally consistent with previous sampling events.

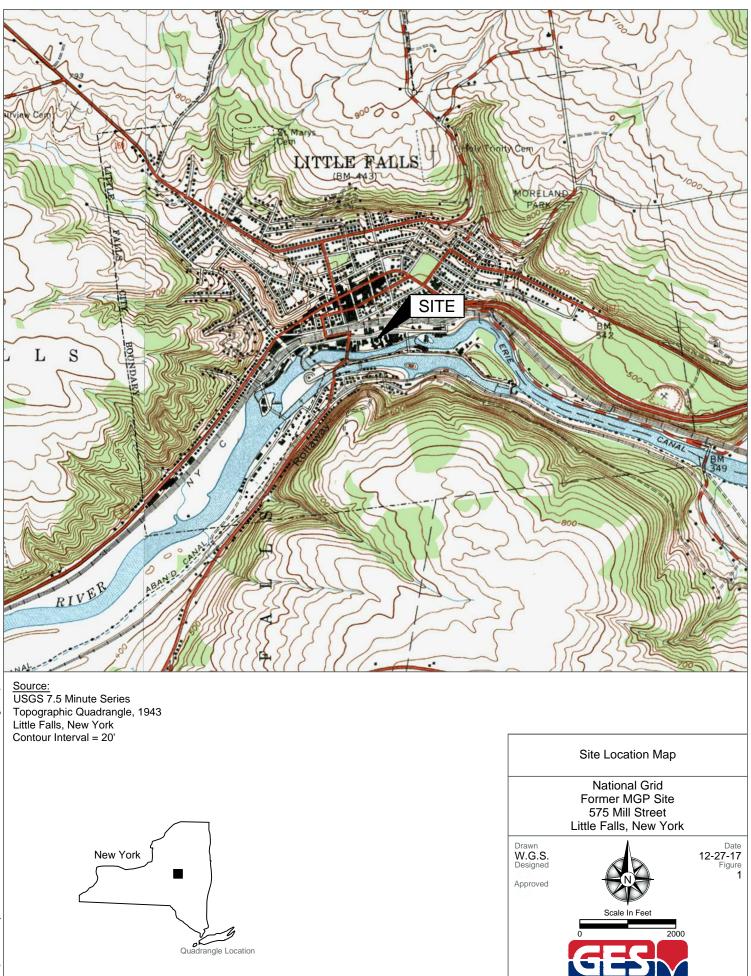
3.2 Recommendations

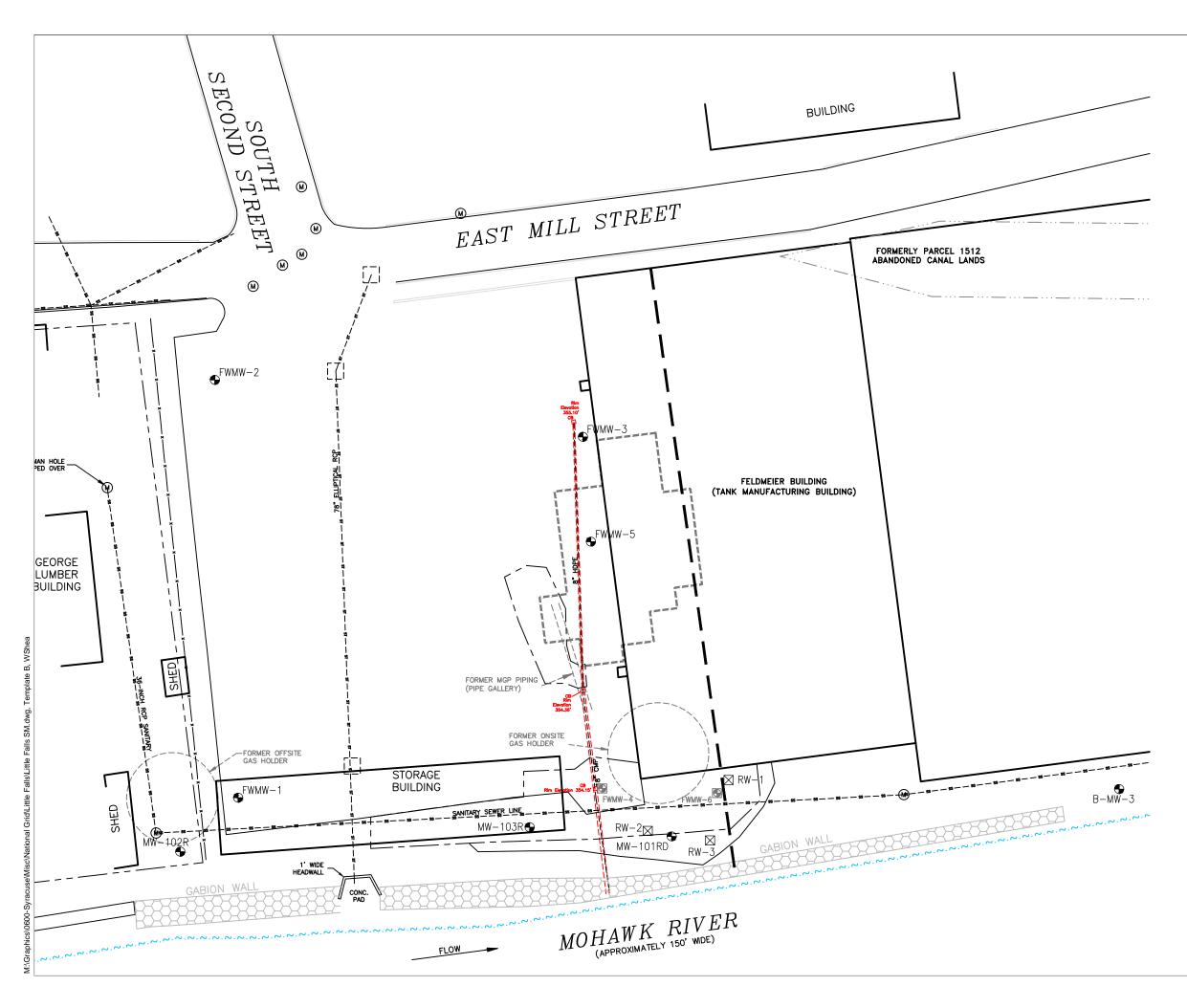
It is recommended that all OM&M activities continue, with the next report due in January 2023.

2021 Groundwater Monitoring Report National Grid Little Falls (Mill Street) Site Little Falls, NY 13365







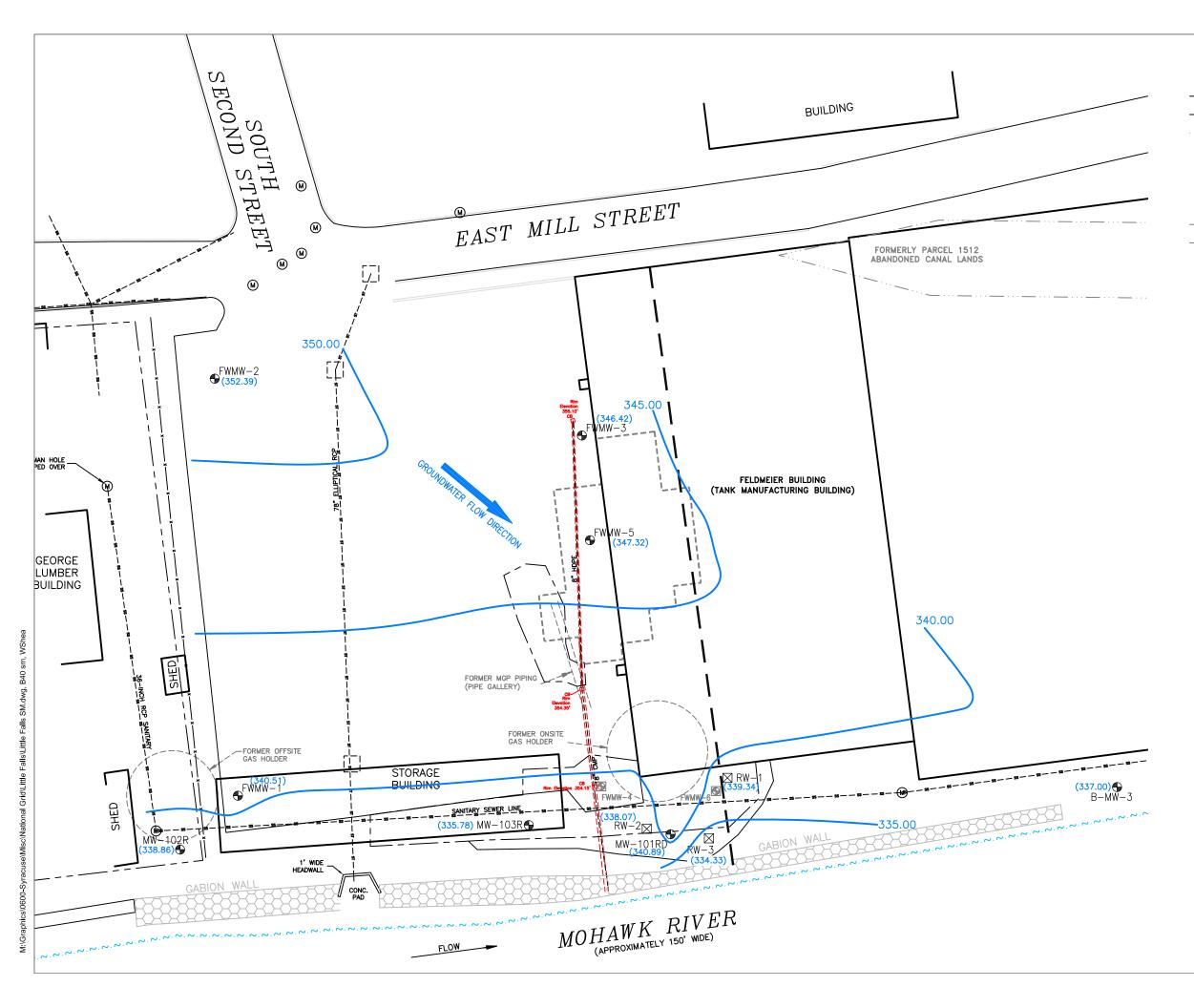


<u>LEGEND</u>



- PROPERTY BOUNDARY
- FENCE
- WATERS EDGE
- UTILITY MANHOLE
- MONITORING WELL
- RECOVERY WELL
- DESTROYED/ABANDONED WELL
- UNDERGROUND SANITARY SEWER LINE
- ST UNDERGROUND STORM SEWER LINE

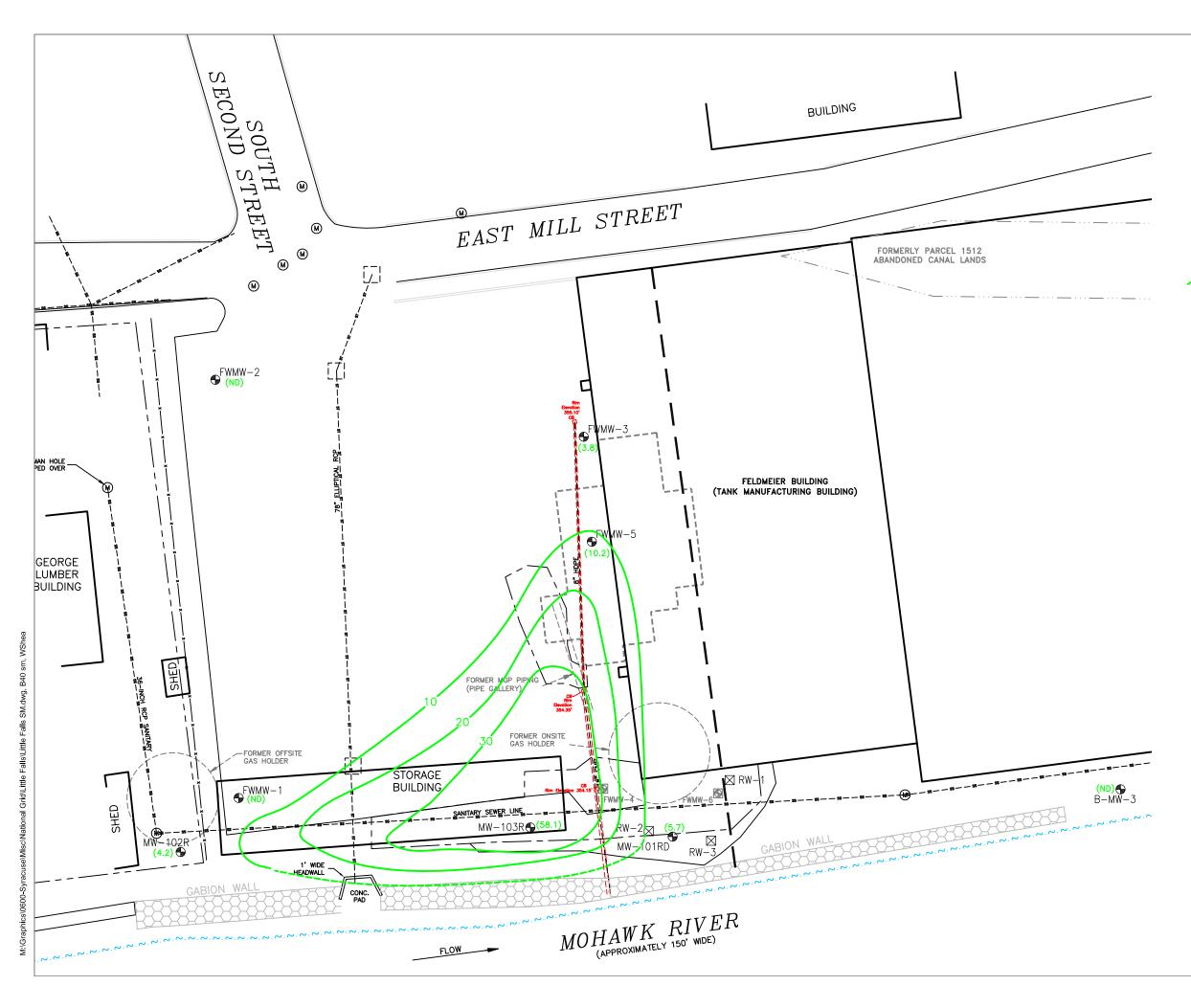




<u>LEGEND</u>

	PROPERTY BOUNDARY
x	FENCE
$\sim \sim \sim \sim \sim \sim$	WATERS EDGE
M	UTILITY MANHOLE
•	MONITORING WELL
\boxtimes	RECOVERY WELL
\bigcirc	DESTROYED/ABANDONED WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
— st — —	UNDERGROUND STORM SEWER LINE
(352.63)	GROUNDWATER ELEVATION (feet)
\sim	GROUNDWATER CONTOUR (FEET)
NG	NOT GAUGED

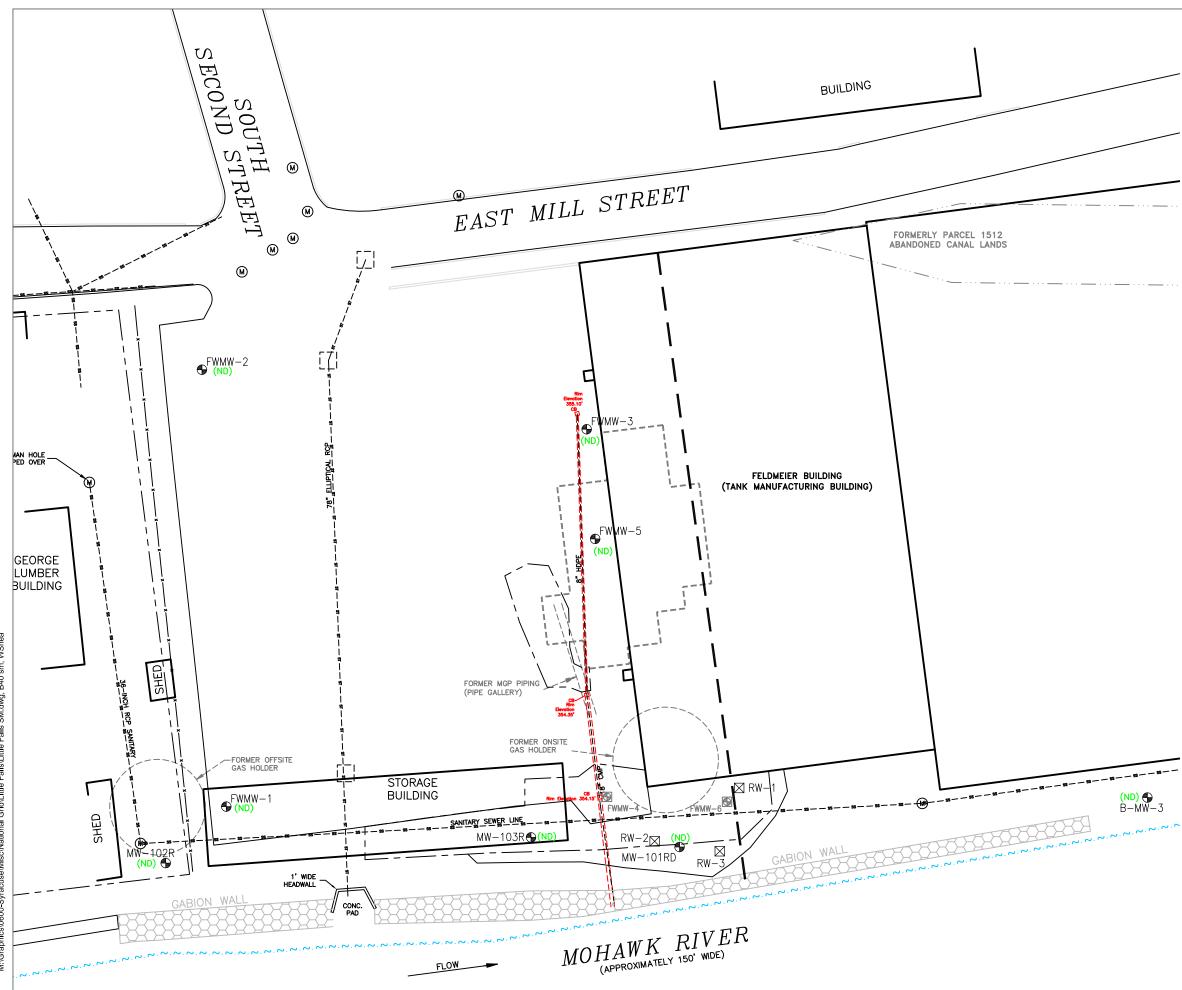




<u>LEGEND</u>

	PROPERTY BOUNDARY
x	FENCE
. ~.~.~.~ .	WATERS EDGE
M	UTILITY MANHOLE
•	MONITORING WELL
\boxtimes	RECOVERY WELL
\bigcirc	DESTROYED/ABANDONED WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
— st — —	UNDERGROUND STORM SEWER LINE
(58.1)	BTEX CONCENTRATION (ug/L)
\sim	BTEX CONTOUR
ug/L	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
ND	NOT DETECTED





ittle Falls\Little Falls SM.dwg, B40 sm, WS Grid/L S

<u>LEGEND</u>

	PROPERTY BOUNDARY
x	FENCE
. ~.~.~.~ .	WATERS EDGE
M	UTILITY MANHOLE
igodol	MONITORING WELL
\boxtimes	RECOVERY WELL
\bigcirc	DESTROYED/ABANDONED WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
— st — —	UNDERGROUND STORM SEWER LINE
(2.1)	NAPHTHALENE CONCENTRATION (ug/L)
\sim	NAPHTHALENE CONTOUR
ug/L	MICROGRAMS PER LITER
ND	NOT DETECTED



2021 Groundwater Monitoring Report National Grid Little Falls (Mill Street) Site Little Falls, NY 13365

Tables





Table 1

Groundwater Elevation Measurements

Well ID	Top of Casing Elevation (ft. AMSL)	February 2011	April 2011	December 2011	June 2012	December 2012	August 2013	December 2013	December 2014	October 2015	October 2016	October 2017	October 2018	October 2019	September 2020	September 2021
B-MW-3	351.4	NA	NA	336.53	NA	337.17	335.93	335.78	337.06	337.32	337.40	337.35	337.60	337.42	336.40	337.00
FWMW-1	355.58	NA	NA	336.70	NA	336.69	336.72	336.36	338.93	336.71	336.68	336.03	336.68	337.80	339.30	340.51
FWMW-2	361.94	NA	NA	353.00	NA	352.94	352.77	352.89	353.29	352.71	352.42	352.04	352.59	352.63	351.99	352.39
FWMW-3	354.93	NA	NA	346.35	NA	345.32	346.33	346.31	346.33	346.52	346.40	346.43	346.43	346.43	339.93	346.42
FWMW-5	355.09	NA	NA	347.59	NA	348.01	347.54	347.25	348.01	347.95	347.67	347.52	347.94	347.77	346.98	347.32
MW-101RD	351.58	340.58	345.71	341.18	340.78	340.94	340.68	340.77	340.82	340.75	340.83	340.82	341.06	341.32	340.76	340.89
MW-102R	356.1	NA	NA	337.48	NA	337.31	337.55	336.72	337.58	337.15	336.84	336.00	336.80	338.05	347.91	338.86
MW-103R	353.83	NA	NA	336.24	NA	335.83	335.55	335.42	335.55	335.64	335.83	335.97	336.03	335.21	335.78	335.78
RW-1	354.03	339.26	345.33	339.32	339.37	339.34	339.5	339.34	339.35	339.34	NA	339.31	339.33	339.45	339.33	339.34
RW-2	353.3	338.04	345.33	338.12	338.05	347.20	338.11	338.01	338.08	338.09	338.17	338.20	338.00	335.58	334.14	338.07
RW-3	352.41	333.44	340.15	333.98	333.51	333.57	333.41	333.99	333.86	333.69	333.86	333.96	334.06	337.54	334.14	334.33

Notes: Elevations reported in feet above mean sea level (ft AMSL). Elevations referenced to National Geodetic Vertical Datum (NGVD) 1988. NA = Not Accessible



Table 2

Groundwater Analytical Results September 2021

Constituent	NYSDEC AWQS	Units	B-MW-3	FWMW-1	FWMW-2	FWMW-3	FWMW-5	MW-101RD	MW-102R	MW-103R
VOCs										
1,1,1-Trichloroethane	5	ug/L	ND (<1.0)	56.8	ND (<1.0)	ND (<1.0)				
1,1-Dichloroethane	5	ug/L	ND (<1.0)	84.2	ND (<1.0)	18.3				
1,1-Dichloroethene	5	ug/L	ND (<1.0)	14.3	ND (<1.0)	ND (<1.0)				
Benzene	1	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2.4	1.1	4.2	50.1
Chloroform	7	ug/L	31.1	24.3	ND (<1.0)					
cis-1,2-Dichloroethene	5	ug/L	ND (<1.0)	1,320	2.4	1.2				
Ethylbenzene	5	ug/L	ND (<1.0)	2.4	ND (<1.0)	2.5				
Toluene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.0	2.2	ND (<1.0)	ND (<1.0)
trans-1,2-Dichloroethene	5	ug/L	ND (<1.0)	5.9	ND (<1.0)	ND (<1.0)				
Trichloroethene	5	ug/L	ND (<1.0)	10.5	ND (<1.0)	ND (<1.0)				
Vinyl Chloride	2	ug/L	ND (<1.0)	144	ND (<1.0)	ND (<1.0)				
Xylene (Total)	5	ug/L	ND (<3.0)	ND (<3.0)	ND (<3.0)	3.8	6.8	ND (<3.0)	ND (<3.0)	5.5
SVOCs										
Acenaphthene	20	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	4.5	7.4	1.5	ND (<0.99)
Anthracene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	2.9	ND (<0.98)	ND (<0.99)
Benzo(a)anthracene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(a)pyrene	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(b)fluoranthene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(g,h,i)perylene	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(k)fluoranthene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
bis(2-Ethylhexyl)phthalate	5	ug/L	ND (<2.5)	ND (<2.5)	ND (<2.5)	ND (<25.3)	ND (<3.0)	ND (<2.6)	ND (<2.5)	ND (<2.5)
Carbazole	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	2.1	ND (<0.98)	ND (<0.99)
Chrysene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Dibenz(a,h)anthracene	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Dibenzofuran	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	6.0	ND (<0.98)	ND (<0.99)
Fluoranthene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	3.0	ND (<0.98)	ND (<0.99)
Fluorene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	7.6	ND (<0.98)	ND (<0.99)
Indeno(1,2,3-cd)pyrene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Naphthalene	10	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Phenanthrene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	7.0	ND (<0.98)	ND (<0.99)
Pyrene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	2.2	ND (<0.98)	ND (<0.99)
Metals										
Aluminum	NA	ug/L	ND (<50.0)	ND (<50.0)	101	7,610	1,850	78.2	ND (<50.0)	ND (<50.0)
Barium	1,000	ug/L	16.2	54.0	248	100	64.1	245	108	236
Calcium	NA	ug/L	44,900	52,800	187,000	108,000	132,000	161,000	59,500	196,000
Chromium	50	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	12.0	12.0	ND (<5.0)	ND (<5.0)	ND (<5.0)
Cobalt	NA	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	19.6	ND (<5.0)	ND (<5.0)	ND (<5.0)
Copper	200	ug/L	6.6	10.8	ND (<5.0)	17.6	14.0	ND (<5.0)	ND (<5.0)	ND (<5.0)
Iron	300	ug/L	ND (<70.0)	230	16,300	6,050	5,330	1,220	2,150	495
Lead	25	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	10.7	8.3	ND (<5.0)	ND (<5.0)	ND (<5.0)
Magnesium	35,000	ug/L	7,370	9,300	16,300	10,200	16,100	21,200	11,900	26,100
Manganese	300	ug/L	ND (<5.0)	9.6	1,270	194	172	641	298	929
Nickel	100	ug/L	ND (<10.0)							
Potassium	NA	ug/L	644	1,510	6,150	3,940	4,200	8,100	4,260	9,680
Sodium	20,000	ug/L	6,540	12,500	756,000	71,200	79,200	387,000	92,500	443,000
Vanadium	NA	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	15.2	6.0	ND (<5.0)	ND (<5.0)	ND (<5.0)
Zinc	2,000	ug/L	12.3	12.4	14.3	114	67.2	ND (<10.0)	ND (<10.0)	ND (<10.0)
Total Cyanide	200	ug/L	ND (<10.0)	ND (<10.0)	12	95	34	ND (<10.0)	ND (<10.0)	21

AWQS

= Ambient Water Quality Standards (from TOGS 1.1.1) = NYSDEC AWQS Not Applicable for this Constituent

NA NYSDEC

= New York State Department of Environmental Conservation

= Technical and Operational Guidance Series

TOGS Bolded

= values indicate exceedance of the NYSDEC AWQS



Appendix A – Quarterly Inspection Forms

Date: 12/8/2021 Technician: KL

Weather:

Time:

8:30 Snow 28

Exterior Cover System						
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:			
Evidence of any Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Saw Cutting	YES	NO	COMMENTS:			
Evidence of Excavation or Trenching	YES	NO	COMMENTS:			
Burrowing Animals	YES	NO	COMMENTS:			

Interior Slab (West Side of Feldmeier Building)						
Sub-Slab Activities Being Performed YES NO COMMENTS:						
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:			

Site N	Site Monitoring Wells					
Well ID.	Location	Secure				
B-MW-3	YES	NO				
FW-MW-1	YES	NO				
FW-MW-2	YES	NO				
FW-MW-3	YES	NO				
FW-MW-5	YES	NO				
MW-101RD	YES	NO				
MW-102R	YES	NO				
MW-103R	YES	NO				
RW-1	YES	NO				
RW-2	YES	NO				
RW-3	YES	NO				

Site DNAPL Recovery Wells						
Well ID.	Well ID. DTW DTP DTB Thickness					
RW-1	N/A	NP	21.95			
RW-2	N/A	NP	19.42			
RW-3	N/A	NP	31.70			
			<u> </u>	A <i>i</i>		

Levels and Recovery in March and September Only

General Comments:

Date: 9/9/2021 Technician: KL

Weather:

Time:

8:30 Cloudy 64

Exterior Cover System						
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:			
Evidence of any Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Saw Cutting	YES	NO	COMMENTS:			
Evidence of Excavation or Trenching	YES	NO	COMMENTS:			
Burrowing Animals	YES	NO	COMMENTS:			

Interior Slab (West Side of Feldmeier Building)						
Sub-Slab Activities Being Performed YES NO COMMENTS:						
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:			

Site N	Site Monitoring Wells					
Well ID.	Location	Secure				
B-MW-3	YES	NO				
FW-MW-1	YES	NO				
FW-MW-2	YES	NO				
FW-MW-3	YES	NO				
FW-MW-5	YES	NO				
MW-101RD	YES	NO				
MW-102R	YES	NO				
MW-103R	YES	NO				
RW-1	YES	NO				
RW-2	YES	NO				
RW-3	YES	NO				

Site DNAPL Recovery Wells							
Well ID.	Well ID. DTW DTP DTB Thickness						
RW-1	14.69	NP	21.95				
RW-2	15.23	NP	19.42				
RW-3	18.08	NP	31.70				
			• • •	<u> </u>			

Levels and Recovery in March and September Only

General Comments:

Date: 6/30/2021 Technician: KL

Weather:

Time:

9:45 Partly Cloudy 88

Exterior Cover System						
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:			
Evidence of any Intrusive Activities	YES	NO	COMMENTS:			
Evidence of Saw Cutting	YES	NO	COMMENTS:			
Evidence of Excavation or Trenching	YES	NO	COMMENTS:			
Burrowing Animals	YES	NO	COMMENTS:			

Interior Slab (West Side of Feldmeier Building)								
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:					
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:					
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:					

Site Monitoring Wells								
Well ID.	Location Secure							
B-MW-3	YES	NO						
FW-MW-1	YES	NO						
FW-MW-2	YES	NO						
FW-MW-3	YES	NO						
FW-MW-5	YES	NO						
MW-101RD	YES	NO						
MW-102R	YES	NO						
MW-103R	YES	NO						
RW-1	YES	NO						
RW-2	YES	NO						
RW-3	YES	NO						

Site DNAPL Recovery Wells									
Well ID.	DTW DTP DTB		DTB	Thickness					
RW-1	n/a	n/a	21.95						
RW-2	n/a	n/a	19.42						
RW-3	n/a	n/a	31.70						
	-		<u> </u>	<u> </u>					

Levels and Recovery in March and September Only

General Comments:

Date: 3/23/2021 Technician: KL

Weather:

Time:

8:15 Sunny 37

Exterior Cover System								
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:					
Evidence of any Intrusive Activities	YES	NO	COMMENTS:					
Evidence of Saw Cutting	YES	NO	COMMENTS:					
Evidence of Excavation or Trenching	YES	NO	COMMENTS:					
Burrowing Animals	YES	NO	COMMENTS:					

Interior Slab (West Side of Feldmeier Building)								
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:					
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:					
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:					

Site Monitoring Wells								
Well ID.	Location Secure							
B-MW-3	YES	NO						
FW-MW-1	YES	NO						
FW-MW-2	YES	NO						
FW-MW-3	YES	NO						
FW-MW-5	YES	NO						
MW-101RD	YES	NO						
MW-102R	YES	NO						
MW-103R	YES	NO						
RW-1	YES	NO						
RW-2	YES	NO						
RW-3	YES	NO						

Site DNAPL Recovery Wells									
Well ID.	DTW DTP		DTB	Thickness					
RW-1	14.63	n/a	21.95						
RW-2	15.23	n/a	19.42						
RW-3	18.35	trace	31.70	trace					
I avala and F		Manala and	O and a make a	· • •					

Levels and Recovery in March and September Only

General Comments:

Asphalt breakup by catchbasin between lean-too and long storage barn.



Appendix B – Well Sampling Field Data

National Grid Non-Owned Former MGP Site Mill Street Little Falls, New York

Well 1D.	Sample?	Well Size	Well Material	Stickup- Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
B-MW-3	Yes	2"	PVC	Flush		14.40		16.14	No	Field Duplicate
FW-MW-1	Yes	2"	PVC	Flush		15.07	-	23.10	No	
FW-MW-2	Yes	2"	PVC	Flush		9.55		14.63	No	
FW-MW-3	Yes	2"	PVC	Flush		85		14.15	No	
FW-MW-5	Yes	2"	PVC	Flush		7.77		11.45	No	
MW-101RD	Yes	2"	PVC	Flush		10.69		51.35	Yes	MS/MSD
MW-102R	Yes	2"	PVC	Flush		17.24		38.42	Yes	
MW-103R	Yes	2"	PVC	Flush		18.05	•	35.53	Yes	
RW-1	No	4"	PVC	Flush		14.69		21.95	Yes	
RW-2	No	4"	PVC	Flush		15.23		19.42	Yes	
RW-3	No	4"	PVC	Flush		18.08		31.70	Yes	

.....

National Grid Mill Street, Little Falls, New York

	010101				
Sampling Personnel:	Date: 9990				
Job Number: 0603275-133650-221	Weather: Clark 64				
Well Id. B-MW-3					
Well Information					
TOC Other	Well Type: Flushmount Stick-Up				
Depth to Water: (feet) 14.40					
Depth to Bottom: (feet) 16.14	Measuring Point Marked: Yes No				
Depth to Product: (feet)	Well Material: PVC SS Other:				
Length of Water Column: (feet) 1.74	Well Diameter: 1" 2" Other:				
Volume of Water in Well: (gel) 274	Comments:				
Three Well Volumes: (gal) 0.434					
Purging Information					
	Conversion Factors				
Purging Method: Bailer Peristaltic Grundfor	s Pump gal/ft. 1" ID 2" ID 4" ID 6" ID				
	thylene of				
Sampling Method: Bailer Peristaltic Grundfor					
Average Pumping Rate: (ml/min) 200	1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping: (min) 20					
Total Volume Removed: (gal) L Did well go dry?	Yes No				
Horiba U-52 Water Quality Meter Used? Yes No					
	Conductivity Turbidity DO TDS				
(feet) (°C) (S.U.) (mV),	(mS/cm) (NTU) (mg/L) (g/L)				
09:25 14:50 17.19 3.31 174	() - 2 - 5 + 0 + 0 + 1 - 4 + 0 - 1 + 0 + 0				
09:30 14.50 17.31 7.05 84	0.210 449 10.22 0.136				
09:35 14.50 17.31 7.16 77					
09:40 14.50 17.35 7.21 76	0.196 24-7 11.12 0.129				
09.45 14.50 17.42 7.25 76					
09:50 14 50 17 43 727 77	0.197 6.5 11.40 0.128				
Sampling Information:					
EPA SW-846 Method 8270 SVOC PAH's Including Total PAH's	4 - 100 ml amber Yes No				
EPA SW-846 Method 8260 VOC's BTEX Including Total BTEX	6 - 40 ml vials Yes No				
EPA SW-846 Method 9012 Total Cyanide	2 - 250 ml plastic Yes 🔀 No				
EPA SW-846 Methods 6010/7470 TAL Inorganics	2 - 250 ml plastic Yes 🔀 No 🔛				
EPA SW-846 Methods 6010/7470 TAL Inorganics FD-0921					
EPA SW-846 Methods 6010/7470 TAL Inorganics FD-0921 Sample ID: <u>B-MW-3-0921</u> Duplicate? Yes No	Shipped: Fed Ex				
EPA SW-846 Methods 6010/7470 TAL Inorganics FD-0921					
EPA SW-846 Methods 6010/7470 TAL Inorganics FD-0921 Sample ID: <u>B-MW-3-0921</u> Duplicate? Yes No	Shipped: Fed Ex				
EPA SW-846 Methods 6010/7470 TAL Inorganics FD-0921 FD-0921 Sample ID: B-MW-3-0921 Duplicate? Yes No Sample Time: 09.50 MS/MSD? Yes No	Shipped: Fed Ex Pick-up by PACE Courier				

Sampling Personnel:		Date: 9/9/21					
Job Number: 0603275-133	650-221						
Well Id. FW-MW-1							
		<u> </u>		Time In:	1-40	Time Out	1230
Well Information			<u> </u>				
		тос	Other				
Depth to Water:	(feet)	5.07		Well Type:			Stick-Up
Depth to Bottom:	(feet)	<u>23.10</u>		Well Locke		Yes	No
Depth to Product:	(feet)	20.10		Weasuring i Well Mater	Point Marked:	Yes⊠ SS Ot	No
Length of Water Column:		3.03	· · · · · · · · · · · · · · · · · · ·	Well Diam			her:
Volume of Water in Well:	(gal)	-28		Comments		" 2"\ Ot	ner:
Three Well Volumes:	(gal)			Commente	•.		
	(901)						
				· · · · · · · · · · · · · · · · · · ·		<u> </u>	
Purging Information							
					<u> </u>	Conversion	
Purging Method:	Bailer	Peristalti		Ifos Pump		1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Tefion	Stainless St		lyethylene	gal/ft.		
Sampling Method:	Bailer	Peristalti		Ifos Pump	of water	0.04 0.16	0.66 1.47
Average Pumping Rate:	(ml/min)	20				lon=3.785L=3785n	
Duration of Pumping:	(min)	30			, <u></u>		nic-1007 cu. leet
Total Volume Removed:	(gal)		Did well go dry?	Yes No	7		
Horiba U-52 Water Quality Me	ter Used?						
Time DTW	Tama		000				
(feet)	Temp (°C)	рН (S.U.)	ORP (m)()	Conductivity	Turbidity	DO	TDS
11:582 16.27	13.86	7, 101	(mV) ~1/7	(mS/cm) <i>0-53</i>	(NTU)	(mg/L)	(g/L)
11:35 3.27	13.80	7.34	-102	12 201	232	3.39	0.50
12:00 13.27	16.36	7-32	=102	0 201	61.0	2.97	0.100
2:05 15.27	16.39	7.32	- 30	11.263	19.6	397 396	UIFU
12:10 15.27	110.107.	7.37	-70	11 757	12 /	3.70	0.170
12:15 15.27	16.106	1.32		10 75 F	8.3	2 4	0.164
12:20 15.27	16.67	7.21	~~~7	10.262	<u> </u>	3.49	0.16 1
				Cod F		-2:17	0.167
		· · · · · · · · · · · · · · · · · · ·					
						· · · · · · · · · · · · · · · · · · ·	
					<u>`</u>		
Sampling Information:						· · · · · · · · · · · · · · · · · · ·	
		-					
EPA SW-846 Method 8270	SVOC PA	H's Includ	ing Total PAH's		2 - 100 ml amb	oer Yes	
EPA SW-846 Method 8260	VOC's BT		ing Total BTEX		3 - 40 ml vial		₭──३ ┝───┤ ║
EPA SW-846 Method 9012	Total Cyar	nide			1 - 250 ml plas		
EPA SW-846 Methods 6010/7470	TAL Inorga	nics			1 - 250 ml plas		
	_						
Sample ID: FWMW-1-0921			Yes No	Shi	oped:	Fed Ex 🕓	
Sample Time: 12:20	<u>MS/N</u>	MSD?			Pick	-up by PACE Co	urier 🔀
Comments/Notes:				L	aboratory:	PACE Ana	lytical
		_		ļ	-	Greensbu	
svrrmt88-vm3\syracuse-01\Dashboard\	Planning\898671,	xism		<u>11</u>			Page 8 of
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Sampling Pers	sonnel: 21	y yon			Date: 9/	9/21			
			· `		the second s	69° Cloude	(
Job Number: 0603275-133650-221						Time In: 1050 Time Out: 1140			
Well Id.	FW-MW-2				nne m. /			1.1.	
	ormation								
	Jimaton		тос	Other	Well Type:	Flus	hmount 🛛 s	tick-Up	
Depth to Wate		(feet)	9.55		Well Locked		Yes	No	
Depth to Botto		(feet)	14.63		Measuring P	oint Marked:	Yes 🔀	No	
Depth to Prod		(feet)			Well Materi	al: PVC		er:	
Length of Wa	ter Column:	(feet)	5.08		Well Diame	ter: 1"	2"\/Oth	er:	
Volume of Wa		(gal)	.81		Comments:				
Three Well Vo	olumes:	(gal)	2.43				<u> </u>	<u></u>	
L		. <u></u>					<u> </u>		
				·····			<u> </u>		
Purging I	nformation					r	Conversion F	actors	
Dunging Al-di		·	Peristaltic		os Pump		1" ID 2" ID	4" ID 6" ID	
Purging Mether		Bailer Teflon		<u> </u>		gal/ft. of			
Sampling Met		Bailer			os Pump	water	0.04 0.16	0.66 1.47	
Average Pum			2π				on=3.785L=3785m		
Duration of P		(min)	30			¥			
Total Volume		(gal)		d well go dry?	Yes No	$\overline{\mathbf{x}}$			
	Nater Quality N		Ves						
Horiba 0-52 V					<u> </u>				
ICI		T	<u>م</u> ل	ORP	Conductivity	Turbidity	DO	TDS	
Time	DTW (feet)	Temp (°C)	pH (S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	
	10.98	14.84	6.69	159	4.47	608	, 30	2.86	
1100	11.10	15.02	6.73	-161	4.47	562	0.00	2.86	
1110	11.20	15.69	6.75	-166	4.46	275	0.00	2.85	
1115	11.31	15.09	6.79	-179	4.47	11.2	0.00	2.86	
1120	11.31	15.07	6.82	-181	4.48	3.8	0.00	2.87	
1125	11.51	15.05	6.84	-181	4.49	1.1	0.00	2.87 2.87	
11:30	11.59	15,09	6.85	-181	4.49	0.7	0.00	2.84	
						· •/••			
		· · · · · · · · · · · · · · · · · · ·						<u>├</u> ────┤	
∥┝────		<u> </u>				<u></u>			
			<u>I. </u>	<u> </u>	<u> </u>		l	<u> </u>	
I				<u> </u>					
Sampling In	formation:								
						0 100	or Ver		
	46 Method 8270			ling Total PAH's		2 - 100 ml aml 3 - 40 ml vial			
1 ·	46 Method 8260			ding Total BTEX		1 - 250 ml plas			
11	46 Method 9012 Methods 6010/74					1 - 250 mi plas 1 - 250 mi plas			
EPA 300-040	methous ou lui/4								
Sample ID:	FWMW-2-09	21 Di	plicate?	Yes	1 Sh	ipped:	Fed Ex		
Sample Time:	1/30		S/MSD?	Yes	1		-up by PACE Co	ourier 🕅	
							PACE Ana		
Comments/N	otes:					Laboratory:	Greensbu		
\svrrmt88-vm3\syr	acuse-01\Dashbo	ard\Planning\8986	671.xlsm				Greensbu	Fig. PA	
lavi i urcoo-vi up lavi	COUL OF PROHIDOR							-	

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Sampling Pers	sonnel: R	the you			Date: 9/9	1/21			
Job Number:	0603275-133			Weather: 68° Cloudy					
					Time In: K	Time In: 10 00 Time Out: 1040			
Well Id.	(44-INITE-0							· · ·	
Well Info	ormation								
			тос	Other	Well Type:	Flus	hmount 🔀 🛛 S	tick-Up	
Depth to Wate	er:	(feet)	8.51		Well Locked	d:	Yes	No	
Depth to Botto		(feet)	14.15		Measuring P		_Yes 🔀	No	
Depth to Produ	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	(feet)							
Length of Wat	ter Column:		5.64		Well Diame		2" 🔀 Oth	er:	
Volume of Wa			.90		Comments:				
Three Well Vo	olumes:	(gal)	2.70		<u> </u>				
				<u></u>					
					<u></u>	<u></u>			
Purging In	nformation						<u> </u>]	
		r	— ·				Conversion F		
Purging Metho		Bailer	Peristaltic		os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID	
Tubing/Bailer		Teflon	Stainless St.		/ethylene	of	0.04 0.16	0.66 1.47	
Sampling Met		Bailer		Grundl	os Pump	water			
Average Pum		/	<u> </u>			_1 gai	on=3.785L=3785m	<u>L=1337cu. leet</u>	
Duration of Pu		(min)	<u>30</u> 2 D	Ω مام در ا	Yes No	N			
Total Volume	Removed:	(gal)		id well go dry?					
Horiba U-52 V	Vater Quality N	Neter Used?	Yes	No 🗌					
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS	
	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(ÑTU)	(mg/L)	(g/L)	
1005	8.92	18.20	6.75	78	.696	0.0	4.32	.455	
1010	9,30	17.89	6.60	163	.721	274	218	.463	
1015	9.66	17.87	6.55	186	.743	74.9	1.17	,476	
1020	10.33	17.92	6.58	190	.728	30.9	2.45	.467	
1025	10.88	17.33	6.60	146	.756	37.4	1.94	. 489	
1030	11.42	17.32	6.58	167	.757	37.1	1.91	. 486	
1035	12.47	17.27	6.62	146	.805	35.0	1.50	- 513	
· · · · · · · · · · · · · · · · · · ·									
		·				···	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
						···· <u>-</u> ····		<u> </u>	
	<u></u>							<u> </u>	
ł		· · · · · · · · · · · · · · · · · · ·							
Sampling Int	formation:								
						0.400.001.000	han Van		
	46 Method 8270			ing Total PAH's		2 - 100 ml am			
	346 Method 8260			ing Total BTEX		3 - 40 ml via			
	346 Method 9012					1 - 250 mi pla			
EPA SW-846	Methods 6010/74	470 TAL Inorg	ganics			1 - 250 ml pla	SUC Tes		
<u> </u>			-li-sta2		1 54	ipped:	Fed Ex		
Sample ID:	FWMW-3-10			Yes No X	*		-up by PACE C		
Sample Time:	1035	IVI8							
Comments/N	otes:					Laboratory:	PACE An	-	
		•					Greensb		
svrrmt88-vm3\syr	acuse-01\Dashbo	ard\Planning\8986	71.xlsm		يسطا			Page 10 of t	

Sampling Pers	onnel P	the lyin				12		
	0603275-133				Weather:	683 cloud	4	
Job Number:		550-221			Time In: 0		Time Out:	0950
Well Id. F	W-MW-5		· · · · · · · · ·	<u>_</u>				<u> </u>
Well Info	motion		·····					
vveii into	mation		тос	Other	Well Type:	Flush	imount 🔀 🛛 Si	iick-Up
Depth to Wate		(feet)	277		Well Locked	d:	Yes	No
Depth to Botto			11.45		Measuring Pe	oint Marked:	_Yes 🔀	No
Depth to Produ		(feet)	~		Well Materia	al: PVC	SSOthe	
Length of Wate		(feet) 3	. 68		Well Diame	ter: 1"	2" 🔀 Othe	er:
Volume of Wa		(gal)	.58		Comments:			
Three Well Vo		(gal)	1.26			<u></u>		
					<u></u>		······	
Purging In	formation							
							Conversion Fa	
Purging Metho	od:	Bailer	Peristaltic	<u></u>	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon	Stainless St.	<u></u>	rethylene	of	004 040	0.66 1.47
Sampling Met	· · · · · · · · · · · · · · · · · · ·	Bailer		Grundf	os Pump	water	0.04 0.16	
Average Pum	oing Rate:		<u>?</u>			1 gallo	on=3.785L=3785m	L=133/CU. Teet
Duration of Pu	imping:	(min)	30			∇		5
Total Volume	Removed:	(gal)	<u>2</u> Di	id well go dry?	Yes No	ム		
Horiba U-52 V	Vater Quality M	leter Used?	Yes					
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS
time	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
0915	8.42	17.07	5.68	199	1.76	34.4	2.86	112
0920	9.08	17.37	6.40	32	1.23	24.1	1.61	.77/
0925	10,16	17.54	6.53	51	,824	17.6	. 99	.533
0930	10.21	17.40	6.46	18	1.14	26.6	1.59	.744
0935	10,54	17.42	6.55	11	1.29	27.4	.94	.812
0940	p.78	17.59	6.58	11	.934	21.7	1.25	.593
0915	10.80	17.80	6.60	-8	.857	19.0	1.53	. 544
								·
				ļ			<u> </u>	1
	· · · · · · · · · · · · · · · · · · ·						···	
Sampling In	formation:							
EPA SW-8	46 Method 8270	SVOC I		ling Total PAH's		2 - 100 ml am		
	346 Method 8260			ling Total BTEX		3 - 40 ml via		
	346 Method 9012					1 - 250 ml pla		
EPA SW-846	Methods 6010/74	470 TAL Inor	ganics			1 - 250 ml pla	SUC TES	
					7	sinnod:	Fed Ex	
Sample ID:	FWMW-5-09		iplicate?	Yes No		nipped: Bio	reu ⊑x k-up by PACE C	
Sample Time:	_0945_	M	5/MSD?					
Comments/N	lotes:					Laboratory:	PACE An	
							Greensb	-
svrrmt88-vm3\svi	racuse-01\Dashbo	ard\Planning\898	671.x i sm		L	<u> </u>	<u> </u>	Page 11 of

Sampling Personnel:	Date: 9/9/2/	
Sampling Personnel:		64
		Time Out: 1012
Well Id. MW-101RD		
Well Information		
тос	Other Well Type: Flushmo	
Depth to Water: (feet) 10-69		res No
Depth to Bottom: (feet) 51.35	incace	Yes No No SS Other:
Depth to Product: (feet)	Well Material: PVC X Well Diameter: 1"	2" Other:
Length of Water Column: (feet) 40.46	Comments:	
Volume of Water in Well:(gel)6.50Three Well Volumes:(gel)19.51		
Purging Information		
		DIVERSION Factors
		ID 2" ID 4" ID 6" ID
	ess St. Polyethylene Of istaltic Grundfos Pump water 0.	04 0.16 0.66 1.47
		3.785L=3785mL=1337cu. feet
Average Pumping Rate:(ml/min)200Duration of Pumping:(min)30	<u> </u>	
Total Volume Removed: (gal) 2	 Did well go dry? Yes No	
Horiba U-52 Water Quality Meter Used?		
Honda 0-52 Water Quanty Meter Osed		
Time DTW Temp pH	ORP Conductivity Turbidity	DO TDS
(feet) (°C) (S.U		(mg/L) (g/L)
10:10 10.80 12.53 7.	8 91 0.254 88.01	2.96 0.183
10:15 10.87 14.33 7.3		3.70 0.457
10:10 10.95 13.63 7.	$\frac{17}{12} - \frac{107}{12} + \frac{191}{211} + \frac{91}{211} + 9$	1.37 $1.231.20$ 1.36
10.25 10.97 13.45 7.		1.31 1.48
10.30 10.97 13.38 7.	12 - 153 - 3.31 - 19.9	1.371.59
10:37 $1:03$ 13.10 7	1 -160 2:49 17.7	1.47 1.60
10.40 11.06 13.13 4.		
Sampling Information:		
	Including Total PAH's 6 - 100 ml amber	Yes No
EPA SW-846 Method 8270 SVOC PAH's EPA SW-846 Method 8260 VOC's BTEX	Including Total BTEX 9 - 40 ml vials	Yes No
EPA SW-846 Method 9012 Total Cyanide	3 - 250 ml plastic	Yes 🗙 No
EPA SW-846 Methods 6010/7470 TAL Inorganics	3 - 250 ml plastic	Yes No
	101RD-MSD-0921	· ·
Sample ID: MW-101RD-0921 Duplicate?	Yes No Shipped:	Fed Ex
Sample Time: 16.40 MS/MSD?	Yes No Pick-up	by PACE Courier
Comments/Notes:	Laboratory:	PACE Analytical
		Greensburg, PA
\\svrrmt88-vm3\syracuse-01\Dashboard\Planning\898671.xlsm		

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Weather: 0603275-133650/221 Weather: Cf ² Cloudit Weil Id MW-102R Tme In: If 47 Time Out. /232 Weil Information TOC Other Weil Type: Flushmount Stok-Up No Depth to Water: (teet) 7.2.7 Weil Cocket: Yes No No Depth to Bottom: (teet) 7.7.7 Weil Nametei: Yes No No Septh to Product: (teet) 7.7.7 Weil Nametei: Yes No No Outme of Water in Welt: (set) 3.3.5 Grandros Pump Grandros Pump Grandros Pump Grandros Pump Grandros Pump get/ft 1 ¹⁰ 10 10 10 10 10 10 10 10 11 13 12 0.04 0.16 0.65 1.47 Average Pumping Rate: (mem) 2.00 Vest No Vest No Vest No Vest No 12 10 10 10 10 10 10 10 10 10 10 10 12 10 10 10 10 1	Job Number:0603275-133650-221WeiWeil Id.MW-102RTimTOC OtherWeil InformationTOC OtherDepth to Water:(feet) $i \frac{7}{2} \frac{2}{7}$ Depth to Bottom:(feet) 38.42 Depth to Product:(feet) $-$ Length of Water Column:(feet) $-$ Volume of Water Column:(feet) $2/.1$ Volume of Water Column:(feet) $2/.1$ Purging Information(gal) 3.3 Purging Method:BailerBailerPeristalticSampling Method:BailerBailerPeristalticDuration of Pumping:(mlmi)Duration of Pumping:(mlmi)Total Volume Removed:(gal) 2 Did well go dry?YesNoTimeDTWTemppHORPCondit $1/5^{5}$ 12.22 $1/2.5^{2}$ 12.47 7.27 7.28 12.12 17.45 12.12 17.47 12.12 17.47 12.12 17.47 12.12 17.47 12.12 17.47 12.12 17.47 12.12 17.27 7.23 -188 1.215 17.12 12.12 17.12 12.12 17.12 12.12 17.23 12.12 17.23 12.12 17.12 12.12 17.23 12.12 17.12 <th>ather: 68° Cloudy a In: 1147 Time Out: 1230 I Type: Flushmount Stick-Up I Locked: Yes No I Locked: Yes Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I ments: Conversion Factors gal/ft. 1" ID 2" ID 4" ID 6" ID of 0.04 0.16 0.66 1.47 I gallon=3.785L=3785mL=1337cu. feet</th>	ather: 68° Cloudy a In: 1147 Time Out: 1230 I Type: Flushmount Stick-Up I Locked: Yes No I Locked: Yes Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I ments: Conversion Factors gal/ft. 1" ID 2" ID 4" ID 6" ID of 0.04 0.16 0.66 1.47 I gallon=3.785L=3785mL=1337cu. feet
Neil id MW-102R Time II: // 46 Time OU: // 23 Well Information TOC Other Well Type: Flushmouth Stock-Up No Depth to Notaer: (feet) 7/2,2 / // Well Type: Yes Stock-Up No Depth to Product: (feet) 3.42 Well Type: Yes Stock-Up No Depth to Dotact: (feet) 3.42 Well Type: Yes Stock-Up No Depth to Product: (feet) 3.42 Well Type: Yes Other: No Well Material: (feet) 3.32 Other: Yes Other: Well Dameter: Proceedings Purging Information Page Peristatic Grundtos Pump Gaintits Pump Pagetit to Stock Proceedings Gaintits Pump Yes No Yes <td< td=""><td>Stop Walneel Output for record 221 Well Id. MW-102R Tim Well Information TOC Other We Depth to Water: (feet) $1 \overrightarrow{A_2} \cancel{A_2}$ We Depth to Bottom: (feet) $3 \cancel{A_2}$ We Depth to Product: (feet) $-$ We Depth to Product: (feet) $-$ We Length of Water Column: (feet) $2 \cancel{1.15}$ We Volume of Water in Well: (gal) 3.3% Cor Three Well Volumes: (gal) $1 \cancel{0.16}$ Stainless St. Grundfos Pump Purging Method: Bailer Peristaltic Grundfos Pump Polyethylene Average Pumping Rate: (m/min) $2 \cancel{20}$ Did well go dry? Yes Horiba U-52 Water Quality Meter Used? Yes No Imm Time DTW Temp pH ORP Condu $1/55$ 17.09 12.32 7.15 -127 $2.$ $1/55$ 17.09 12.32 7.15 12.7 2.12 7.15<!--</td--><td>In: 1/47 Time Out: 1230 I Type: Flushmount Stick-Up I Locked: Yes No I Locked: Yes No suring Point Marked: Yes Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I Diameter: 1" 10 0.16 10 of 0.04 0.16 0.66 1.47 I gallon=3.785L=3785mL=1337cu. feet 1 1 1</td></td></td<>	Stop Walneel Output for record 221 Well Id. MW-102R Tim Well Information TOC Other We Depth to Water: (feet) $1 \overrightarrow{A_2} \cancel{A_2}$ We Depth to Bottom: (feet) $3 \cancel{A_2}$ We Depth to Product: (feet) $-$ We Depth to Product: (feet) $-$ We Length of Water Column: (feet) $2 \cancel{1.15}$ We Volume of Water in Well: (gal) 3.3% Cor Three Well Volumes: (gal) $1 \cancel{0.16}$ Stainless St. Grundfos Pump Purging Method: Bailer Peristaltic Grundfos Pump Polyethylene Average Pumping Rate: (m/min) $2 \cancel{20}$ Did well go dry? Yes Horiba U-52 Water Quality Meter Used? Yes No Imm Time DTW Temp pH ORP Condu $1/55$ 17.09 12.32 7.15 -127 $2.$ $1/55$ 17.09 12.32 7.15 12.7 2.12 7.15 </td <td>In: 1/47 Time Out: 1230 I Type: Flushmount Stick-Up I Locked: Yes No I Locked: Yes No suring Point Marked: Yes Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I Diameter: 1" 10 0.16 10 of 0.04 0.16 0.66 1.47 I gallon=3.785L=3785mL=1337cu. feet 1 1 1</td>	In: 1/47 Time Out: 1230 I Type: Flushmount Stick-Up I Locked: Yes No I Locked: Yes No suring Point Marked: Yes Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I Diameter: 1" 10 0.16 10 of 0.04 0.16 0.66 1.47 I gallon=3.785L=3785mL=1337cu. feet 1 1 1
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TOC Other Depth to Water: (feet) 72,27 Depth to Bottom: (feet) 38,42 Depth to Droduct: (feet) - Depth to Product: (feet) - Glume of Water Column: (feet) 3.3 g Three Well Volumes: (get) 1.0 r.1 g Purging Information (get) 1.0 r.1 g Purging Method Balair Peristante Grund(to Pump) Daration of Pumping: (min) 200 Duration of Pumping: (min) 200 Duration of Pumping: (min) 200 Time DTW Temp pH OTP (motion Pumping: (min) (glu) Unation of Pumping: (min) 200 (min) Drate Outree Pumping: (min) 200 (min) Total Volume Removed: (gat) <td>TOCOtherWeDepth to Water:(feet)$i \overrightarrow{A} 2 \cancel{Y}$WeDepth to Bottom:(feet)$38.42$WeDepth to Product:(feet)$-$WeLength of Water Column:(feet)$2 \cancel{I} \cdot \cancel{I} \cancel{F}$WeVolume of Water in Well:(gal)3.3%CorThree Well Volumes:(gal)10.1%CorPurging Method:BailerPeristalticGrundfos PumpTubing/Bailer Material:TeflonStainless St.PolyethyleneSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min)$2x0$Did well go dry?YesDuration of Pumping:(min)30Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNoImage: NoImage:$17.90$$13.90$$27.50$$-1727$$2.$$1/55$$19.09$$12.32$$7.16\%$$-1733$$2.$$1/55$$19.09$$12.32$$7.16\%$$-1735$$2.$$1/200$$17.90$$12.12$$7.20$$-18\%$$1.$$1/210$$17.92$$12.12$$7.20$$-18\%$$1.$$1/210$$17.92$$12.12$$7.20$$-18\%$$1.$$1/210$$17.92$$12.12$$7.20$$-18\%$$1.$$1/210$$17.92$$12.12$$7.20$$-18\%$$1.$$1/210$$17.92$$12.12$$7.20$$-18\%$$1.$<</td> <td>I Locked: Yes No suring Point Marked: Yes No I Material: PVC SS I Diameter: 1" 2" Other: Other: I Diameter: 1" 2" Other: ments: Other: </td>	TOCOtherWeDepth to Water:(feet) $i \overrightarrow{A} 2 \cancel{Y}$ WeDepth to Bottom:(feet) 38.42 WeDepth to Product:(feet) $-$ WeLength of Water Column:(feet) $2 \cancel{I} \cdot \cancel{I} \cancel{F}$ WeVolume of Water in Well:(gal) 3.3% CorThree Well Volumes:(gal) 10.1% CorPurging Method:BailerPeristalticGrundfos PumpTubing/Bailer Material:TeflonStainless St.PolyethyleneSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min) $2x0$ Did well go dry?YesDuration of Pumping:(min) 30 Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNoImage: NoImage: 17.90 13.90 27.50 -1727 $2.$ $1/55$ 19.09 12.32 7.16% -1733 $2.$ $1/55$ 19.09 12.32 7.16% -1735 $2.$ $1/200$ 17.90 12.12 7.20 -18% $1.$ $1/210$ 17.92 12.12 7.20 -18% $1.$ $1/210$ 17.92 12.12 7.20 -18% $1.$ $1/210$ 17.92 12.12 7.20 -18% $1.$ $1/210$ 17.92 12.12 7.20 -18% $1.$ $1/210$ 17.92 12.12 7.20 -18% $1.$ <	I Locked: Yes No suring Point Marked: Yes No I Material: PVC SS I Diameter: 1" 2" Other: Other: I Diameter: 1" 2" Other: ments: Other:
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Durging Method: Bailer Perstatic Grundtos Pump Sampling Method: Tefon Stainless St. Polyeithylene Grundtos Pump Gru	Purging Method:BailerPeristalticGrundfos Pump Polyethylene Grundfos PumpTubing/Bailer Material:TeflonStainless St.Polyethylene Grundfos PumpSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min) 200 Did well go dry?YesDuration of Pumping:(min) 30 Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNoImage: State S	gal/ft. 1" ID 2" ID 4" ID 6" ID of of 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet
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Total Volume Removed: (gal) 2 Did well go dry? Yes No Horiba U-52 Water Quality Meter Used? Yes No	Total Volume Removed: (gal) 2 Did well go dry? Yes Horiba U-52 Water Quality Meter Used? Yes No Yes No Time DTW Temp pH ORP Conduction (mV) (feet) (°C) (S.U.) (mV) (mS) //50 //7.90 /3.90 7.50 $-/77$ $7.$ //55 /9.09 /2.32 $7./8$ $-/83$ $2.$ //55 /9.09 /2.32 $7./8$ -183 $2.$ //200 /9.45 /2.49 7.15 -185 $2.$ //205 /9.45 /2.47 7.12 -187 $1.$ //205 /9.45 /2.07 7.20 -188 $1.$ //205 /9.86 /2.07 7.20 -188 $1.$ //210 /9.85 /2.12 7.23 -192 $$	No
Horiba U-52 Water Quality Meter Used? Yes No Time DTW Temp pH ORP Conductivity Turbidity DO TDS ////////////////////////////////////	Horiba U-52 Water Quality Meter Used? Yes No Time DTW Temp pH ORP Conduction $(feet)$ $(^{\circ}C)$ $(S.U.)$ (mV) (mS) $II5^{\circ}O$ $I7.9O$ $I3.9O$ $7.5O$ $-I77$ $2.$ $I200$ $I7.45$ $I2.47$ 7.15 $-I85$ $2.$ $I205$ $I7.77$ $I2.17$ 7.12 $-I88$ $1.$ $I210$ $I7.86$ $I2.07$ 7.20 $-I88$ $1.$ $I210$ $I7.93$ $I2.12$ 7.23 $-I92$ $$	
Time DTW Temp pH ORP Conductivity Turbidity DO TDS //?.90 /?.90 /?.90 /?.90 /?.90 /?.90 /?.90 (g/L) (g/L) ///50 /?.90 /?.90 /?.90 /?.90 /?.90 /?.90 /?.90 (g/L) (g/L) ///50 /?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
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Imme DTW Terrip (Fill)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
(feet) (°C) (S.U.) (mV) (mS/cm) (NTU) (mg/L) (g/L) //50 //290 /3.90 2.50 -/27 2.19 34% 1.14 1.41 //55 /9.09 /2.32 7.18 -/73 2.23 0.3 0.00 1.42 //200 /9.45 /3.49 7.15 -/85 2.02 0.0 0.00 1.42 //200 /9.45 /3.49 7.12 -/85 2.02 0.0 0.00 1.42 /200 /9.45 /3.247 7.20 -/85 1.11 0.0 2.28 .1/9 /210 /9.86 12.12 7.20 -/85 1.11 0.0 2.28 .1/9 /215 /9.93 /2.12 7.20 -/85 0.0 0.00 .5746 /220 /7.92 /2.02 -/93 .805 0.0 0.00 .5746 /220 /7.92 7.20 -/93 .805 0.0 0.00 .00 .00 sampling Information:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
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Sample ID: MW-102R-0921 Duplicate? Yes No Shipped: Fed Ex	EPA SW-846 Method 9012 Total Cyanide	3 - 40 ml vials Yes No
	EPA SW-846 Methods 6010/7470 TAL Inorganics	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No
		3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No
		3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No
Sample Time: 1220 MS/MSD? Yes No Pick-up by PACE Courier	Sample Time: /220 MS/MSD? Yes No	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex
Comments/Notes: Laboratory: PACE Analytical	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No	
Comments/Notes. Greensburg, PA	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex Pick-up by PACE Courier	
Pere 13 of	svrrmt88-vm3\syracuse-01\Dashboard\Planning\898671.xlsm	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex Pick-up by PACE Courier Laboratory: PACE Analytical

	a19/21					
Sampling Personnel:	Date: 9/7/~/					
Job Number: 0603275-133650-221	Weather: Curry 69					
Well Id. MW-103R	Time In: 10:55 Time Out: 11-40					
Well Information TOC Other Depth to Water: (feet) 18-05 Depth to Bottom: (feet) 35.53 1 Depth to Product: (feet) 17-46 1 Length of Water Column: (feet) 17-46 1 Volume of Water in Well: (gal) 2-74 1 Three Well Volumes: (gal) 8-34 1	Well Type: Flushmount Stick-Up Well Locked: Yes No Measuring Point Marked: Yes No Well Material: PVC SS Well Diameter: 1" 2" Other:					
Purging Information Purging Method: Baller Tubing/Bailer Material: Teflon Sampling Method: Baller Sampling Method: Baller Baller Peristaltic Grundfo Average Pumping Rate: (ml/min) Duration of Pumping: (min) Total Volume Removed: (gal) Horiba U-52 Water Quality Meter Used? Yes No						
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Sampling Information: EPA SW-846 Method 8270 SVOC PAH's Including Total PAH's EPA SW-846 Method 8260 VOC's BTEX Including Total PAH's EPA SW-846 Method 9012 Total Cyanide Including Total BTEX EPA SW-846 Methods 6010/7470 TAL Inorganics Including Total BTEX Sample ID: MW-103R-0921 Duplicate? Yes Sample Time: ((:: 2)) MS/MSD? Yes Comments/Notes: Votes: Votes: Votes:	2 - 100 ml amber Yes No 3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex Pick-up by PACE Courier Laboratory: PACE Analytical Greensburg, PA					
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

+ 	Saation B			Section C																				Page:	1 of 1	
Section A Required Client Information:	Section B Required Project Information:		1	nvoice Infor	mation:																		[
Company: GES - Syracuse	Report To: Devin Shay (GES) dshay@gesonline.com			Attention: Accounts Payable via email at ges-involces@gesonline.com REGULATOR Company Name: Groundwater & Environmental Services, Inc. INPDES GR0 ID WATER DI																						
Address: 6780 Northern Blvd, Suite 100	Report To: Tim Beaumont (GES) tbeaumont@gesonline.com		1	Company N	ame: Grou	indwate	er & Env	vironmental S	ervičes,	Inc.							i npde	S	GR	ol ID	WATE	R	DRIN	NG WAT	ER	
East Syracuse, New York 13057	Annual GWS	3	1	Address: 6760 Northern Blvd, Suite 100, East Syracuse, NY 13057												OTH										
Email To: dshay@gesonline.com	Purchase Order No.:			Pace Quote	Reference	¢												S	ITE		1	GA	IL İ	IN	M	NC
Phone: 800.220.3069 Fax: None x4052	Project Name: National Grid Little Falls, NY		1	Pace Projec	t Manager:	Rache	l Christ	ner									LOCAT	ION			1	он (sc!	WE		~
Requested Due Date/TAT: Standard	Project Number: 0603275-133650-221			Pace Profile	#:							_					Filtered (Y	(N)			-	_	\square	14	Ш.	Щ
Section D Required Client information SAMPLE ID One Character per box. (A-Z, 0-9 i,-) Samples IDs MUST BE UNIQUE	Valid Hain's Codes HATEUX ENCLODE VALER DV WATER WT WATER WT PROJECT P PROJECT P PROJECT P CUL VIPE VP PROJECT P CUL VIPE VP PROJECT P PROJECT P PROJE	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COMPOSITEST		GRAB			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	preserved			HOP	~		Requested Anelysis:		I AN A A A A A A A A A A A A A A A A A A	The second se	International Contraction of the second seco				Pac	se Project Number Lab LD.
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Appendix C – Data Usability Summary Report and Analytical Data



1750 Kraft Drive, Suite 2700 • Blacksburg, Virginia 24060 • (866) 756 0788

February 3, 2022

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

RE: Data Usability Summary Report for National Grid Mill Street, Little Falls, NY Site Data Packages Pace Job No. 30440128

Groundwater & Environmental Services, Inc. (GES) reviewed one data packages (Laboratory Project Number 30440128) Pace Analytical Services, LLC. Greensburg, PA.

This reports detailed the analysis of groundwater samples collected from monitoring wells during on September 9, 2021 at the Little Falls site. Eight aqueous samples and a field duplicate were analyzed for volatile organic compounds (VOCs), polyaromatic hydrocarbons (PAHs), Metals, Mercury, and Cyanide. Methodologies utilized were those of EPA 6010C, EPA 7470A and the USEPA SW846 methods 8260C/8270D/9012, with additional QC requirements of the NYSDEC ASP.

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

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

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

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

In summary, sample results are usable as reported. All quality control passed laboratory and EPA criteria. No data was qualified pursuant to this data validation effort.

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

Sample ID	Qualifier	Analyte	Reason for qualification
	J	Aluminum	RPD > 30%
	UJ	Mercury	Post digestion spike and MS/MSD recoveries were out of compliance
	J+	Acenaphthylene	High MS/MSD
MW-101RD	UJ-	1,1,2-Trichlorotrifluoroethane Cyclohexane Vinyl Chloride	Low MS/MSD
	UJ-	Methylcyclohexane	Low continuing calibration recovery
	J-	Vinyl Chloride	Low MS/MSD
	J	Sodium	Low Post Digestion Spike Low MS/MSD
	J-	Calcium	Low Post Digestion Spike
FWMW-3	J- (detected) UJ- (non-detected)	All analytes	Dechlorination
B-MW-3 FD	UJ-	Cyanide	Low MS/MSD
All samples	UJ- J-	Methylcyclohexane	Low CCV recovery

Table 1 – Data Qualifications

Analytical Anomalies

- Bromomethane was high in the continuing calibration standard, non-detect in all the samples. No data is qualified.
- FWMW-3 for SVOC analysis was diluted due to matrix issues, surrogates were low, but do not reflect method efficacy. No data is qualified.
- Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. The laboratory reported results as individual isomers, however, for these two compounds, the peak represents an isomeric pair. No data is qualified.
- FWMW-3 required dechlorination. All VOC results are estimated with a possible low bias. Qualifications are noted in Table 1.

BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Samples were analyzed within hold time and instrumental tune fragmentations were within acceptance ranges. There were no positive detections in the blanks. Surrogate and internal standard recoveries were within required limits with the exception of diluted samples.

Calibrations standards show acceptable responses within analytical protocol and validation action limits with the exception of the following analytes:

Low CCV - impacts all samples - qualified "UJ-, J-", estimated with a possible low bias:

• Methylcyclohexane - There are no sample detections, all samples are qualified as "UJ-"

High CCV – impacts only samples with positive detections. qualified J+", estimated with a possible high bias:

• Bromomethane – no qualification; all samples are non-detect

MS/MSD recoveries associated with MW-101RD were generally within criteria. The following compounds had recoveries low out-of-specification:

- Dichlorodifluoromethane
- Vinyl chloride
- 1,1,2-Trichlorotrifluoroethane

The analytes are qualified as noted in **Table 1**.

The MS/MSD RPD associated with MW-101RD was above maximum for Bromomethane. Data is already qualified.

The blind field duplicate correlations of BMW-3-1021, where applicable, fall within guidance limits.

PAHs by EPA8270D/NYSDEC ASP

Holding times were met. Instrumental tune fragmentations were within acceptance ranges. Surrogate recoveries were within analytical and validation.

Blanks show no contamination with the exception of a low-level detection of di-n-butyl phthalate in the method blank. There were no corresponding detections in the samples and data is unaffected. Calibrations standards show acceptable responses within analytical protocol and validation action limits.

LCS recoveries and RPD were reported within acceptable ranges.

MS/MSD associated with MW-101RD reported multiple high recoveries. Any corresponding detection in the sample is qualified and noted in Table 1. RPDs were within criteria.

The blind field duplicate correlations of BMW-3 -0921, where applicable, fall within guidance limits.

Metals by EPA 6010C/NYDESC ASP

The matrix spikes of **MW-101RD** recovered high for multiple metal analytes. The original concentrations for many of these analytes was greater than 4x the concentration spiked, and the high recoveries do not indicate an issue with accuracy. The following metals had high recoveries with spike concentrations within the EPA acceptable range. The following analytes are qualified as estimated with a possible high bias:

Sodium had a high MS recovery and a low PDS recovery. Calcium had a low PDS recovery. The data is qualified as estimated with an unknown bias.

The ICP Serial Dilution evaluations were within specification for samples with detections of the target elements above the action limit.

The blind field duplicate correlations of BMW-3-0921, where applicable, fall within guidance limits, with the exception of zinc, where the RPD was 44.3%. Zinc is qualified as estimated with an indeterminate bias.

Total Mercury by 7470A and Total Cyanide by 9012B/NYSDEC ASP

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

- Low recovery of cyanide in the MS/MSD prepared from the samples B-MW-3-0921 and FD-0921. Low recoveries indicate a possible low bias.
- High recovery of mercury in the post-digestion spike. There was no mercury reported in the sample. No data was qualified.

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

The blind field duplicate correlations of B-MW-3-0921, where applicable, fall within guidance limits.

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.

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Bonnie Janowiak, Ph.D. Senior Project Chemist 701 N Main St Blacksburg, VA 24060

VALIDATION DATA QUALIFIER DEFINITIONS

- **U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- **J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- **UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- **NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- **R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.



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

SAMPLE SUMMARY

Project:National Grid - Little Falls,Pace Project No.:30440128

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30440128001	B-MW-3-0921	Water	09/09/21 09:50	09/10/21 09:30
30440128002	FWMW-1-0921	Water	09/09/21 12:20	09/10/21 09:30
30440128003	FWMW-2-0921	Water	09/09/21 11:30	09/10/21 09:30
30440128004	FWMW-3-0921	Water	09/09/21 10:35	09/10/21 09:30
30440128005	FWMW-5-0921	Water	09/09/21 09:35	09/10/21 09:30
30440128006	MW-101RD-0921	Water	09/09/21 10:40	09/10/21 09:30
30440128007	MW-101RD-MS-0921	Water	09/09/21 10:40	09/10/21 09:30
30440128008	MW-101RD-MSD-0921	Water	09/09/21 10:40	09/10/21 09:30
30440128009	MW-102R-0921	Water	09/09/21 12:20	09/10/21 09:30
30440128010	MW-103R-0921	Water	09/09/21 11:30	09/10/21 09:30
30440128011	FD-0921	Water	09/09/21 00:00	09/10/21 09:30
30440128012	TRIP BLANK	Water	09/09/21 00:01	09/10/21 09:30



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8270D

Description:8270D Organics Reduced VolumeClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

General Information:

11 samples were analyzed for EPA 8270D 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.

• FWMW-3-0921 (Lab ID: 30440128004)

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

QC Batch: 464315

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

- FWMW-3-0921 (Lab ID: 30440128004)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

Method Blank:

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

QC Batch: 464315

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 464315 [OEXT/448 (Lab ID: 2241855)
 - Di-n-butylphthalate



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8270D

Description:8270D Organics Reduced VolumeClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

Laboratory Control Spike:

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

QC Batch: 464315

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

- LCS (Lab ID: 2241856)
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - 2-Methylnaphthalene
 - Hexachlorocyclopentadiene
 - Isophorone
 - N-Nitrosodiphenylamine
 - Naphthalene
 - Pentachlorophenol

Matrix Spikes:

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

QC Batch: 464315

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30440128006

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

- MS (Lab ID: 2241857)
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - Acenaphthylene
 - Biphenyl (Diphenyl)
 - Di-n-butylphthalate
 - Hexachlorocyclopentadiene
 - Naphthalene
- MSD (Lab ID: 2241858)
 - Biphenyl (Diphenyl)
 - Hexachlorocyclopentadiene
 - Naphthalene

Additional Comments:

Analyte Comments:

QC Batch: 464315

- 1c: De-Chlorinated
 - FWMW-3-0921 (Lab ID: 30440128004)
 - 2,4,6-Trichlorophenol
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - 2,4-Dinitrophenol



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method:	EPA 8270D
Description:	8270D Organics Reduced Volume
Client:	Groundwater & Environmental Services, Inc. (Syracuse)
Date:	September 24, 2021

Analyte Comments:

QC Batch: 464315

- 1c: De-Chlorinated
 - FWMW-3-0921 (Lab ID: 30440128004)
 - 2,4-Dinitrotoluene
 - 2,4,5-Trichlorophenol
 - 2,6-Dinitrotoluene
 - 2-Chloronaphthalene
 - 2-Chlorophenol
 - 2-Methylphenol(o-Cresol)
 - 2-Methylnaphthalene
 - 2-Nitroaniline
 - 2-Nitrophenol
 - 3,3'-Dichlorobenzidine
 - 3-Nitroaniline
 - 4,6-Dinitro-2-methylphenol
 - 4-Bromophenylphenyl ether
 - 4-Chloro-3-methylphenol
 - 4-Chloroaniline
 - 4-Chlorophenylphenyl ether
 - 4-Nitroaniline
 - 4-Nitrophenol
 - Acenaphthene
 - Acenaphthylene
 - Acetophenone
 - Anthracene
 - Atrazine
 - Butylbenzylphthalate
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - Biphenyl (Diphenyl)
 - bis(2-Chloroethoxy)methane
 - bis(2-Chloroethyl) ether
 - bis(2-Chloroisopropyl) ether
 - bis(2-Ethylhexyl)phthalate
 - Benzaldehyde
 - Carbazole
 - Chrysene
 - Dibenz(a,h)anthracene
 - Dibenzofuran
 - Dimethylphthalate
 - Di-n-butylphthalate
 - · Di-n-octylphthalate



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method:	EPA 8270D
Description:	8270D Organics Reduced Volume
Client:	Groundwater & Environmental Services, Inc. (Syracuse)
Date:	September 24, 2021

Analyte Comments:

QC Batch: 464315

- 1c: De-Chlorinated
 - FWMW-3-0921 (Lab ID: 30440128004)
 - Diethylphthalate
 - Fluorene
 - Fluoranthene
 - Hexachloro-1,3-butadiene
 - Hexachlorobenzene
 - Hexachlorocyclopentadiene
 - Hexachloroethane
 - Indeno(1,2,3-cd)pyrene
 - Isophorone
 - Naphthalene
 - N-Nitroso-di-n-propylamine
 - Nitrobenzene
 - N-Nitrosodiphenylamine
 - Phenol
 - Phenanthrene
 - Pentachlorophenol
 - Pyrene



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8260C

Description:8260C MSVClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

QC Batch: 464566

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

- B-MW-3-0921 (Lab ID: 30440128001)
 - Bromomethane
- BLANK (Lab ID: 2243169)
 - Bromomethane
- FD-0921 (Lab ID: 30440128011)
- Bromomethane
- FWMW-1-0921 (Lab ID: 30440128002)
 Bromomethane
- FWMW-2-0921 (Lab ID: 30440128003) • Bromomethane
- FWMW-3-0921 (Lab ID: 30440128004)
 - Bromomethane
- FWMW-5-0921 (Lab ID: 30440128005)
 Bromomethane
- LCS (Lab ID: 2243170)
- Bromomethane
- MS (Lab ID: 2243171)
- Bromomethane
- MSD (Lab ID: 2243172)
- Bromomethane
- MW-101RD-0921 (Lab ID: 30440128006)
 Bromomethane
- MW-101RD-MS-0921 (Lab ID: 30440128007)
 - Bromomethane
- MW-101RD-MSD-0921 (Lab ID: 30440128008)
 Bromomethane
- MW-102R-0921 (Lab ID: 30440128009)
- Bromomethane
- MW-103R-0921 (Lab ID: 30440128010)
 - Bromomethane



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method:	EPA 8260C
Description: 8	
	Groundwater & Environmental Services, Inc. (Syracuse)
Date:	September 24, 2021
QC Batch: 464	566
CH: Th	ne continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
	IP BLANK (Lab ID: 30440128012) P Bromomethane
CL: Th	e continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
	MW-3-0921 (Lab ID: 30440128001)
•	Methylcyclohexane
• BL	ANK (Lab ID: 2243169)
•	Methylcyclohexane
	0-0921 (Lab ID: 30440128011)
	VMW-1-0921 (Lab ID: 30440128002)
	Methylcyclohexane
	VMW-2-0921 (Lab ID: 30440128003) • Methylcyclohexane
	VMW-3-0921 (Lab ID: 30440128004)
	• Methylcyclohexane
	VMW-5-0921 (Lab ID: 30440128005)
	Methylcyclohexane
• LC	S (Lab ID: 2243170)
•	Methylcyclohexane
• MS	S (Lab ID: 2243171)
	Methylcyclohexane
	SD (Lab ID: 2243172)
	N-101RD-0921 (Lab ID: 30440128006)
	• Methylcyclohexane
	V-101RD-MS-0921 (Lab ID: 30440128007) • Methylcyclohexane
	V-101RD-MSD-0921 (Lab ID: 30440128008)
	• Methylcyclohexane
	N-102R-0921 (Lab ID: 30440128009)
	Methylcyclohexane
• MV	N-103R-0921 (Lab ID: 30440128010)
	Methylcyclohexane
	IP BLANK (Lab ID: 30440128012)
•	Methylcyclohexane
Internal Stand	lards:
All internal star	ndards were within QC limits with any exceptions noted below.
Surrogates:	ware within OC limits with any exceptions noted below

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



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8260C

Description:8260C MSVClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

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: 464566

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30440128006

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

- MS (Lab ID: 2243171)
 - 1,1,2-Trichlorotrifluoroethane
 - Cyclohexane
 - Vinyl chloride
- MSD (Lab ID: 2243172)
 - Vinyl chloride

Additional Comments:



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 9012B

Description:9012B Cyanide, TotalClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

General Information:

11 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: 464030

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30440128001,30440128011

- ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
 - MS (Lab ID: 2240247)
 - Cyanide
 - MSD (Lab ID: 2240243)
 - Cyanide
 - MSD (Lab ID: 2240248)
 - Cyanide

Additional Comments:

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