August 25, 2025
Project 1801687

Mr. Matthew King
Division of Environmental Remediation
NYSDEC, Region 9
700 Delaware Avenue
Buffalo, NY 14209

Re: Groundwater Monitoring Results
June 2025 Event
Hornell Former MGP Site
NYSDEC Site # 851032

Dear Mr. King:

This report has been prepared by GEI Consultants, Inc. (GEI) for National Fuel Gas Distribution Corporation (National Fuel) as an element of the post-remedial monitoring program at the Hornell Former Manufactured Gas Plant (MGP) Site in Hornell, New York (Figure 1). Quarterly groundwater monitoring is performed at the site in accordance with the Interim Site Management Plan (ISMP) that was approved by the New York State Department of Environmental Conservation (NYSDEC) in June 2024. This report presents the results of quarterly groundwater monitoring activities performed on June 3, 2025.

Background

The Hornell Former MGP Site was remediated in 2020 and 2021 in accordance with the March 2018 Record of Decision. The remediation activities included removal of underground MGP appurtenances, excavation of soil, in-situ solidification of soil, placement of a layer of clean fill, institutional controls, and monitored natural attenuation. An Environmental Easement (EE) is also a planned component for long-term site management, but the EE has not been finalized by the NYSDEC, which also precludes finalization of the Site Management Plan (SMP). As a result, the ISMP was requested by the NYSDEC, which was submitted in February 2024, and approved by the NYSDEC in a letter to National Fuel dated June 24, 2024. The ISMP includes implementation of quarterly groundwater monitoring for 2 years, along with other site management components (primarily annual site inspections). This sampling event was the fourth of the quarterly groundwater sampling events under the ISMP.

Quarterly Field Monitoring Activities and Results

The locations of the monitoring wells are provided on Figure 1. The June 2025 monitoring activities and results are summarized below.

Monitoring Well Elevation Gauging

As required by the ISMP, the seven existing monitoring wells were gauged to obtain data to assess the direction of groundwater flow. Table 1 summarizes the monitoring well designations, surveyed well elevation data, depth-to-water measurements, and groundwater elevations reflecting measurement data from June 3, 2025. Based on that data, Figure 1 depicts the inferred shallow groundwater contours. As shown, groundwater flow is inferred to be generally toward the east/southeast and consistent with prior site data. A relatively higher water level was noted in MW15, suggesting a localized high groundwater elevation in the area; a similar condition was observed during previous gauging events. The highest groundwater elevation measurement was in the western area of the site at MW13 (1142.62 feet NAVD88). The lowest groundwater elevation measurement was in the eastern area of the site at MW4 (1141.91 feet NAVD88). The overall change in the elevation of the water table across the site was 0.71 feet, which represents a hydraulic gradient of approximately 0.002 ft/ft.

NAPL Monitoring

The ISMP calls for assessment and, if present, gauging of non-aqueous phase liquids (NAPL) at each of the seven wells. The monitoring wells were gauged to assess the presence or absence of both light non-aqueous phase liquid (LNAPL), and dense non-aqueous phase liquid (DNAPL). The results are summarized in Table 1. As shown in the table, NAPL was not identified at any of these wells.

Groundwater Sampling

Groundwater sampling was performed on June 3, 2025. Samples were collected from monitoring wells MW6, MW7, MW8, MW12RR and MW13, as prescribed in the ISMP. The samples were submitted to Eurofins of Buffalo, New York and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (USEPA) SW-846 Method 8260C, polycyclic aromatic hydrocarbons (PAHs) by USEPA SW-846 Method 8270D, and total cyanide by USEPA SW-846 Method 9014. Eurofins is certified to perform analyses under the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP). The methods used for the analyses and the quality control measures performed were consistent with the specifications provided in the NYSDEC Analytical Services Protocol (ASP). Data exceeding applicable standards are summarized on Figure 2 and the entire dataset is tabulated in Table 2.

The laboratory Form 1 Report sheets for the analyses and the chain-of-custody records are included in Appendix A.

Analytical Results

Analytical data were validated per appropriate USEPA guidance, consistent with DER-10, Appendix 2B. The Data Usability Summary Report (DUSR) is presented in Appendix B. Data and qualifiers in Table 2 and Figure 2 reflect the findings of the DUSR. All results were determined to be usable and valid with minor qualifications.

The groundwater analytical results were compared to the standards or guidance values provided in the document entitled “NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Number 1.1.1,” (NYSDEC 1998, with addenda through 2023) and 6 NYCRR Part 703.6 water quality standards for GA groundwater, as applicable. Table 2 shows concentrations greater than method detection limits in bold font and any detected concentrations greater than applicable standards or guidance values are shaded gray. A

table of pre-and post-remedial analytical data for each well included in the ISMP monitoring scope is in Appendix C.

BTEX

No BTEX constituents were detected above the laboratory reporting limit during this event.

PAHs

No PAHs were detected above NYSDEC Standards and/or Guidance Values during this event.

Total Cyanide

Cyanide was not detected above the NYSDEC Ambient Water Quality Standard (AWQS) of 200 ug/L during this event, except in upgradient well MW8, which had a cyanide concentration of 760 ug/L. This concentration is higher than the prior three post-remediation sampling events (maximum among post-remediation sampling was 700 ug/L in August 2024, but within the range of total cyanide concentrations detected in MW8 historically (maximum 3,300 ug/L in February 2012).

Implementation of the Post-Remedial Monitoring Work Plan

As noted above, the groundwater monitoring program will continue quarterly for 2 years per the ISMP. The next groundwater monitoring event is expected to be conducted in September 2025. NYSDEC will be notified at least 7 days prior to the sampling event.

If you have any questions or comments regarding the information presented in this report, please contact Wendy Moore of GEI at 607.216.8966.

Sincerely,

Wendy Moore, P.E.
Senior Engineer
Project Manager

Emily Dallas
Project Scientist

Appendices
- Tables
- Figures
- Appendix A Chain-of-Custody Record and Form 1 Report Sheets
- Appendix B Data Usability Summary Report
- Appendix C Pre- and Post-Remedial Groundwater Data Table

cc: Ms. Kiera Thompson, NYSDEC (electronic copy)
Mr. David Pratt, P.E., NYSDEC (electronic copy)
Mr. Brad Walker, National Fuel
Ms. Tanya Alexander, National Fuel

WLM/EMD:ag
B:\Working\NATIONAL FUEL GAS\1801687 Hornell MGP Remediation DB\2025 Q2 GWS\Summary Report\Hornell Q2 2025 GW Report_2025-08-25.docx

Tables

Table 1. Groundwater Elevation Summary and NAPL Gauging Results
June 2025 Groundwater Monitoring Event
Hornell Former MGP Site

Well ID	Screened Interval (Feet below top of inner casing)	PVC Riser Reference Elevation (Feet NAVD88)	Depth to Water June 3, 2025 (Feet below top of inner casing)	Groundwater Elevation June 3, 2025 (Feet NAVD88)	NAPL Gauging Results
MW4	12 - 22	1156.23	14.32	1141.91	Not Present
MW6	12 - 22	1157.86	15.58	1142.28	Not Present
MW7	13 - 23	1155.74	13.46	1142.28	Not Present
MW8	13 - 23	1158.26	15.69	1142.57	Not Present
MW12RR	13 - 23	1156.99	14.78	1142.21	Not Present
MW13	12 - 22	1156.92	14.30	1142.62	Not Present
MW15	33 - 35	1156.10	13.63	1142.47	Not Present

Table 2. Hornell Former MGP Site
June 2025 Groundwater Analytical Results
National Fuel Gas
Hornell, NY

Analyte	Units	CAS No.	Sample Name / Sample Date / NYS AWQS	MW6 6/3/2025	MW7 6/3/2025	MW8 6/3/2025	MW12RR 6/3/2025	MW13 6/3/2025
BTEX	ug/L							
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U
Total BTEX		--	NE	ND	ND	ND	ND	ND
PAHs	ug/L							
Acenaphthene		83-32-9	20*	**4.9 J**	5.2 U	5 U	5.2 U	5 U
Acenaphthylene		208-96-8	NE	**1.3 J**	5.2 U	5 U	5.2 U	5 U
Anthracene		120-12-7	50*	5.4 U	5.2 U	5 U	5.2 U	5 U
Benzo(a)anthracene		56-55-3	0.002*	5.4 U	5.2 U	5 U	5.2 U	5 U
Benzo(b)fluoranthene		205-99-2	0.002*	5.4 U	5.2 U	5 U	5.2 U	5 U
Benzo(k)fluoranthene		207-08-9	0.002*	5.4 U	5.2 U	5 U	5.2 U	5 U
Benzo(g,h,i)perylene		191-24-2	NE	5.4 U	5.2 U	5 U	5.2 U	5 U
Benzo(a)pyrene		50-32-8	ND	5.4 U	5.2 U	5 U	5.2 U	5 U
Chrysene		218-01-9	0.002*	5.4 U	5.2 U	5 U	5.2 U	5 U
Dibenz(a,h)anthracene		53-70-3	NE	5.4 U	5.2 U	5 U	5.2 U	5 U
Fluoranthene		206-44-0	50*	5.4 U	5.2 U	5 U	5.2 U	5 U
Fluorene		86-73-7	50*	**5.4**	5.2 U	5 U	5.2 U	5 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	5.4 U	5.2 U	5 U	5.2 U	5 U
Naphthalene		91-20-3	10*	5.4 U	5.2 U	5 U	5.2 U	5 U
Phenanthrene		85-01-8	50*	5.4 U	5.2 U	5 U	5.2 U	5 U
Pyrene		129-00-0	50*	5.4 U	5.2 U	5 U	5.2 U	5 U
Total PAHs		--	NE	**11.6**	ND	ND	ND	ND
Cyanides	ug/L							
Total Cyanide		57-12-5	200	**48 J**	**100**	**760 J**	**57 J**	**83**

Table 2. Hornell Former MGP Site
Groundwater Analysis Results
National Fuel Gas
Hornell, NY

Notes:
Analytes in blue are not detected in any sample
ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbons

Total BTEX and Total PAHs are calculated using detects only.
Total PAHs is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene (17 compounds)

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

CAS No. = Chemical Abstracts Service Number
MGP = Manufactured Gas Plant
ND = Not Detected
NE = Not Established

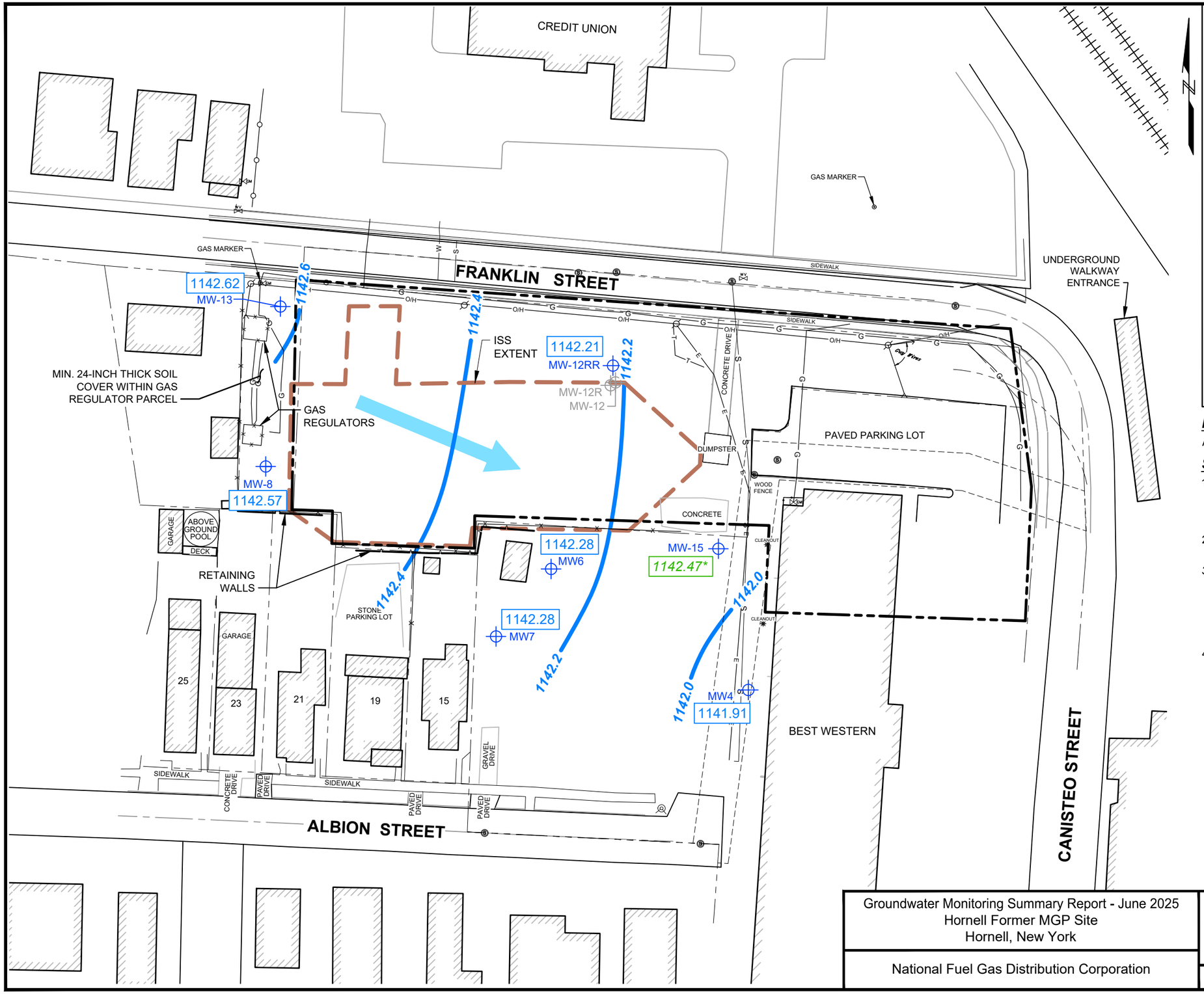
Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the guidance value or standard to which it was compared

Validation Qualifiers:
J = The result is an estimated value
U = The result was not detected above the reporting limit

Figures

Figure 1. Well Location and Groundwater Contour Map

Figure 2. Summary of NYS GW Exceedances – June 2025



LEGEND

- MW1 — MONITORING WELL
- MW12 — FORMER MONITORING WELL
- 1142.0 — GROUNDWATER CONTOUR (FEET NAVD88) - JUNE 2025
- 1142.21 — WATER TABLE WELL GROUNDWATER ELEVATION (FEET NAVD88) - JUNE 2025
- 1142.47* — DEEP WELL GROUNDWATER ELEVATION MEASUREMENT - NOT USED TO GENERATE CONTOURS
- INFERRED GROUNDWATER FLOW DIRECTION - JUNE 2025
- ISS EXTENT
- APPROXIMATE SITE BOUNDARY (FROM NYSDEC)
- APPROXIMATE PROPERTY BOUNDARIES
- UTILITY EASEMENT
- CHAIN-LINK FENCE
- 15 — EXISTING STRUCTURE & HOUSE NUMBER

NOTE:

ALL UTILITY LINE LOCATIONS ARE APPROXIMATE.

SOURCES:

1. SURVEY PREPARED FOR GEI CONSULTANTS, INC. BY WILLIAM J TUCKER, II PLS #50369, CLEAR CREEK LAND SURVEYING, L.L.C., SPRINGVILLE, N.Y. DATED FEBRUARY 11, 2011.
2. CITY OF HORNELL, STEUBEN COUNTY, NY TAX MAP NO. 166.06 DATED OCT. 18, 2008.
3. *MODIFICATION TO ORDER ON CONSENT AND ADMINISTRATIVE SETTLEMENT, ATTACHMENT 1* BETWEEN NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, OFFICE OF GENERAL COUNSEL, AND NATIONAL FUEL GAS DATED OCT. 21, 2010.
4. PROPERTY BOUNDARIES OBTAINED FROM SURVEY PREPARED FOR GEI CONSULTANTS, INC. BY MATTHEW RODGERS ROBINSON PLS # 050938, ECOSTRATEGIES ENGINEERING & SURVEYING, FALCONER N.Y. DATED JULY 29, 2021.

0 50' 100'

SCALE: 1" = 50'

Groundwater Monitoring Summary Report - June 2025
Hornell Former MGP Site
Hornell, New York

National Fuel Gas Distribution Corporation

GEI Consultants

WELL LOCATION AND GROUNDWATER CONTOUR MAP - JUNE 2025

Project 1801687 | August 2025 | Fig. 1

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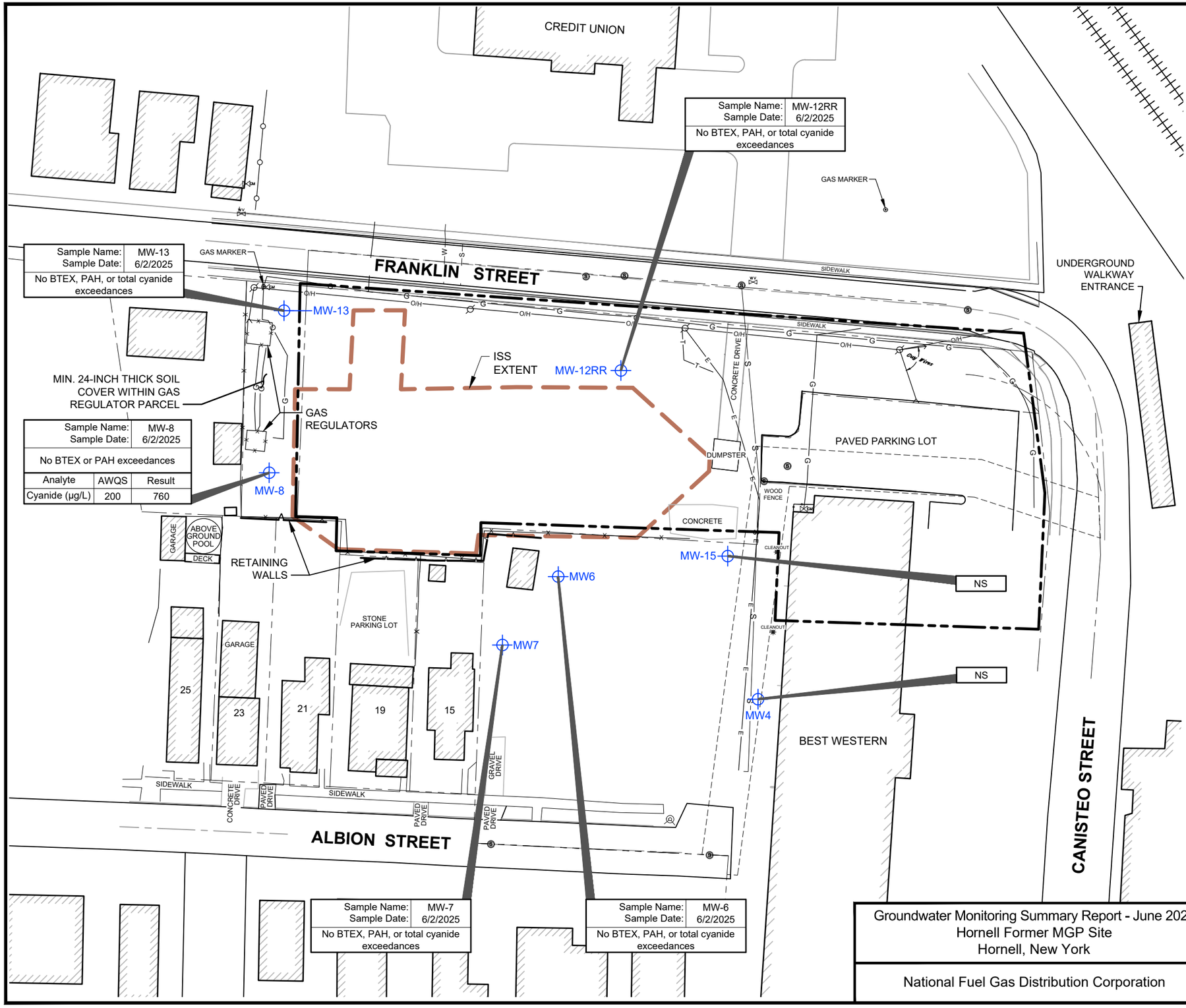

LEGEND

- ISS EXTENT
- APPROXIMATE SITE BOUNDARY (FROM NYSDEC)
- APPROXIMATE PROPERTY BOUNDARIES
- UTILITY EASEMENT
- CHAIN-LINK FENCE
- 15 — EXISTING STRUCTURE & HOUSE NUMBER
- MW1 — MONITORING WELL
- MW12 — FORMER MONITORING WELL
- NS — NOT SAMPLED
- µg/L — MICROGRAMS PER LITER OR PARTS PER BILLION (ppb)

NOTE:

ALL UTILITY LINE LOCATIONS ARE APPROXIMATE.

SOURCES:

1. SURVEY PREPARED FOR GEI CONSULTANTS, INC. BY WILLIAM J TUCKER, II PLS #50369, CLEAR CREEK LAND SURVEYING, L.L.C., SPRINGVILLE, N.Y. DATED FEBRUARY 11, 2011.
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Groundwater Monitoring Summary Report - June 2025
Hornell Former MGP Site
Hornell, New York

National Fuel Gas Distribution Corporation

GEI Consultants

GROUNDWATER EXCEEDANCES SUMMARY MAP - JUNE 2025

Project 1801687 | August 2025 | Fig. 2

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Appendix A Chain-of-Custody Record and Form 1 Report Sheets

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Dallas
GEI Consultants Inc
950 Danby Road
Suite 201-F
Ithaca NY 14850

Generated 06/18/2025

JOB DESCRIPTION

NFG Hornell

JOB NUMBER

480-229920-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
06/18/2025

Authorized for release by
John R Schove, Project Manager II
John.Schove@et.eurofinsus.com
716 504-9838

Table of Contents

Table of Contents

Job Narrative
480-229920-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/4/2025 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-229920-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229920-1	MW6	Water	06/03/25 12:30	06/04/25 09:30
480-229920-2	MW7	Water	06/03/25 13:10	06/04/25 09:30
480-229920-3	MW8	Water	06/03/25 12:10	06/04/25 09:30
480-229920-4	MW12RR	Water	06/03/25 14:05	06/04/25 09:30
480-229920-5	MW13	Water	06/03/25 13:25	06/04/25 09:30
480-229920-6	TB	Water	06/03/25 00:00	06/04/25 09:30

Detection Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-229920-1

Client Sample ID: MW6 — Lab Sample ID: 480-229920-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	4.9	J	5.4	0.45	ug/L	1		8270D	Total/NA
Acenaphthylene	1.3	J	5.4	0.41	ug/L	1		8270D	Total/NA
Fluorene	5.4		5.4	0.39	ug/L	1		8270D	Total/NA
Cyanide, Total	0.048	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW7 — Lab Sample ID: 480-229920-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.10	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW8 — Lab Sample ID: 480-229920-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.76	B	0.020	0.0082	mg/L	2		9012B	Total/NA

Client Sample ID: MW12RR — Lab Sample ID: 480-229920-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.057	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW13 — Lab Sample ID: 480-229920-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.083	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: TB — Lab Sample ID: 480-229920-6

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-229920-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: MW6

Date Collected: 06/03/25 12:30
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/05/25 00:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/25 00:19	1
Toluene	ND		1.0	0.51	ug/L			06/05/25 00:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/25 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/05/25 00:19*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/05/25 00:19*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/05/25 00:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/05/25 00:19*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**4.9**	**J**	5.4	0.45	ug/L		06/06/25 09:15	06/09/25 21:14	1
Acenaphthylene	**1.3**	**J**	5.4	0.41	ug/L		06/06/25 09:15	06/09/25 21:14	1
Anthracene	ND		5.4	0.30	ug/L		06/06/25 09:15	06/09/25 21:14	1
Benzo[a]anthracene	ND		5.4	0.39	ug/L		06/06/25 09:15	06/09/25 21:14	1
Benzo[a]pyrene	ND		5.4	0.51	ug/L		06/06/25 09:15	06/09/25 21:14	1
Benzo[b]fluoranthene	ND		5.4	0.37	ug/L		06/06/25 09:15	06/09/25 21:14	1
Benzo[g,h,i]perylene	ND		5.4	0.38	ug/L		06/06/25 09:15	06/09/25 21:14	1
Benzo[k]fluoranthene	ND		5.4	0.79	ug/L		06/06/25 09:15	06/09/25 21:14	1
Chrysene	ND		5.4	0.36	ug/L		06/06/25 09:15	06/09/25 21:14	1
Dibenz(a,h)anthracene	ND		5.4	0.46	ug/L		06/06/25 09:15	06/09/25 21:14	1
Fluoranthene	ND		5.4	0.43	ug/L		06/06/25 09:15	06/09/25 21:14	1
Fluorene	**5.4**		5.4	0.39	ug/L		06/06/25 09:15	06/09/25 21:14	1
Indeno[1,2,3-cd]pyrene	ND		5.4	0.51	ug/L		06/06/25 09:15	06/09/25 21:14	1
Naphthalene	ND		5.4	0.83	ug/L		06/06/25 09:15	06/09/25 21:14	1
Phenanthrene	ND		5.4	0.48	ug/L		06/06/25 09:15	06/09/25 21:14	1
Pyrene	ND		5.4	0.37	ug/L		06/06/25 09:15	06/09/25 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*53 - 126*	*06/06/25 09:15*	*06/09/25 21:14*	*1*
Nitrobenzene-d5 (Surr)	*67*		*29 - 129*	*06/06/25 09:15*	*06/09/25 21:14*	*1*
p-Terphenyl-d14 (Surr)	*76*		*33 - 132*	*06/06/25 09:15*	*06/09/25 21:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.048**	**B**	0.010	0.0041	mg/L			06/08/25 17:25	1

Client Sample ID: MW7

Date Collected: 06/03/25 13:10
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/05/25 00:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/25 00:41	1
Toluene	ND		1.0	0.51	ug/L			06/05/25 00:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/25 00:41	1

Client Sample ID: MW7

Date Collected: 06/03/25 13:10
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/05/25 00:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/05/25 00:41*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/05/25 00:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/05/25 00:41*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		06/06/25 09:15	06/09/25 21:41	1
Acenaphthylene	ND		5.2	0.40	ug/L		06/06/25 09:15	06/09/25 21:41	1
Anthracene	ND		5.2	0.29	ug/L		06/06/25 09:15	06/09/25 21:41	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		06/06/25 09:15	06/09/25 21:41	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		06/06/25 09:15	06/09/25 21:41	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		06/06/25 09:15	06/09/25 21:41	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		06/06/25 09:15	06/09/25 21:41	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		06/06/25 09:15	06/09/25 21:41	1
Chrysene	ND		5.2	0.34	ug/L		06/06/25 09:15	06/09/25 21:41	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		06/06/25 09:15	06/09/25 21:41	1
Fluoranthene	ND		5.2	0.42	ug/L		06/06/25 09:15	06/09/25 21:41	1
Fluorene	ND		5.2	0.38	ug/L		06/06/25 09:15	06/09/25 21:41	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		06/06/25 09:15	06/09/25 21:41	1
Naphthalene	ND		5.2	0.79	ug/L		06/06/25 09:15	06/09/25 21:41	1
Phenanthrene	ND		5.2	0.46	ug/L		06/06/25 09:15	06/09/25 21:41	1
Pyrene	ND		5.2	0.35	ug/L		06/06/25 09:15	06/09/25 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*97*		*53 - 126*	*06/06/25 09:15*	*06/09/25 21:41*	*1*
Nitrobenzene-d5 (Surr)	*86*		*29 - 129*	*06/06/25 09:15*	*06/09/25 21:41*	*1*
p-Terphenyl-d14 (Surr)	*92*		*33 - 132*	*06/06/25 09:15*	*06/09/25 21:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.10**	**B**	0.010	0.0041	mg/L			06/08/25 17:29	1

Client Sample ID: MW8

Date Collected: 06/03/25 12:10
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/05/25 01:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/25 01:03	1
Toluene	ND		1.0	0.51	ug/L			06/05/25 01:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/25 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/05/25 01:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/05/25 01:03*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/05/25 01:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/05/25 01:03*	*1*

Client Sample ID: MW8

Date Collected: 06/03/25 12:10
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-3

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 22:08	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 22:08	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 22:08	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 22:08	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 22:08	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 22:08	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 22:08	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 22:08	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 22:08	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 22:08	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 22:08	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 22:08	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 22:08	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 22:08	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 22:08	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*106*		*53 - 126*	*06/06/25 09:15*	*06/09/25 22:08*	*1*
Nitrobenzene-d5 (Surr)	*93*		*29 - 129*	*06/06/25 09:15*	*06/09/25 22:08*	*1*
p-Terphenyl-d14 (Surr)	*88*		*33 - 132*	*06/06/25 09:15*	*06/09/25 22:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.76**	**B**	0.020	0.0082	mg/L			06/11/25 20:52	2

Client Sample ID: MW12RR

Date Collected: 06/03/25 14:05
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/05/25 01:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/25 01:26	1
Toluene	ND		1.0	0.51	ug/L			06/05/25 01:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/25 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/05/25 01:26*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/05/25 01:26*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/05/25 01:26*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/05/25 01:26*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		06/06/25 09:15	06/09/25 22:35	1
Acenaphthylene	ND		5.2	0.40	ug/L		06/06/25 09:15	06/09/25 22:35	1
Anthracene	ND		5.2	0.29	ug/L		06/06/25 09:15	06/09/25 22:35	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		06/06/25 09:15	06/09/25 22:35	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		06/06/25 09:15	06/09/25 22:35	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		06/06/25 09:15	06/09/25 22:35	1

Client Sample ID: MW12RR

Date Collected: 06/03/25 14:05
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-4

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		06/06/25 09:15	06/09/25 22:35	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		06/06/25 09:15	06/09/25 22:35	1
Chrysene	ND		5.2	0.34	ug/L		06/06/25 09:15	06/09/25 22:35	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		06/06/25 09:15	06/09/25 22:35	1
Fluoranthene	ND		5.2	0.42	ug/L		06/06/25 09:15	06/09/25 22:35	1
Fluorene	ND		5.2	0.38	ug/L		06/06/25 09:15	06/09/25 22:35	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		06/06/25 09:15	06/09/25 22:35	1
Naphthalene	ND		5.2	0.79	ug/L		06/06/25 09:15	06/09/25 22:35	1
Phenanthrene	ND		5.2	0.46	ug/L		06/06/25 09:15	06/09/25 22:35	1
Pyrene	ND		5.2	0.35	ug/L		06/06/25 09:15	06/09/25 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*53 - 126*	*06/06/25 09:15*	*06/09/25 22:35*	*1*
Nitrobenzene-d5 (Surr)	*67*		*29 - 129*	*06/06/25 09:15*	*06/09/25 22:35*	*1*
p-Terphenyl-d14 (Surr)	*89*		*33 - 132*	*06/06/25 09:15*	*06/09/25 22:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.057**	**B**	0.010	0.0041	mg/L			06/08/25 17:59	1

Client Sample ID: MW13

Date Collected: 06/03/25 13:25
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/05/25 01:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/25 01:48	1
Toluene	ND		1.0	0.51	ug/L			06/05/25 01:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/25 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/05/25 01:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/05/25 01:48*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/05/25 01:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/05/25 01:48*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 23:02	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 23:02	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 23:02	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 23:02	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 23:02	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 23:02	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 23:02	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 23:02	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 23:02	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 23:02	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 23:02	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 23:02	1

Client Sample ID: MW13

Lab Sample ID: 480-229920-5

Date Collected: 06/03/25 13:25

Matrix: Water

Date Received: 06/04/25 09:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 23:02	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 23:02	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 23:02	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*102*		*53 - 126*	*06/06/25 09:15*	*06/09/25 23:02*	*1*
Nitrobenzene-d5 (Surr)	*90*		*29 - 129*	*06/06/25 09:15*	*06/09/25 23:02*	*1*
p-Terphenyl-d14 (Surr)	*96*		*33 - 132*	*06/06/25 09:15*	*06/09/25 23:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.083**	**B**	0.010	0.0041	mg/L			06/08/25 18:02	1

Client Sample ID: TB

Lab Sample ID: 480-229920-6

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/04/25 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/05/25 02:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/25 02:10	1
Toluene	ND		1.0	0.51	ug/L			06/05/25 02:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/05/25 02:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/05/25 02:10*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/05/25 02:10*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/05/25 02:10*	*1*

Surrogate Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-229920-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-229920-1	MW6	102	99	104	97
480-229920-2	MW7	100	104	104	98
480-229920-3	MW8	101	101	104	97
480-229920-4	MW12RR	100	104	103	100
480-229920-5	MW13	100	98	105	96
480-229920-6	TB	101	103	104	96
LCS 480-747932/6	Lab Control Sample	97	102	100	97
MB 480-747932/8	Method Blank	99	100	102	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(53-126)	(29-129)	(33-132)
480-229920-1	MW6	73	67	76
480-229920-2	MW7	97	86	92
480-229920-3	MW8	106	93	88
480-229920-4	MW12RR	77	67	89
480-229920-5	MW13	102	90	96
LCS 480-748102/2-A	Lab Control Sample	103	98	99
MB 480-748102/1-A	Method Blank	99	88	107

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-747932/8
Matrix: Water
Analysis Batch: 747932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/04/25 18:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/25 18:40	1
Toluene	ND		1.0	0.51	ug/L			06/04/25 18:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/25 18:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/04/25 18:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/04/25 18:40*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/04/25 18:40*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/04/25 18:40*	*1*

Lab Sample ID: LCS 480-747932/6
Matrix: Water
Analysis Batch: 747932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	23.3		ug/L		93	71 - 124
Ethylbenzene	25.0	23.6		ug/L		95	77 - 123
Toluene	25.0	23.5		ug/L		94	80 - 122
Xylenes, Total	50.0	47.4		ug/L		95	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-748102/1-A
Matrix: Water
Analysis Batch: 748269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 748102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 14:06	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 14:06	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 14:06	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 14:06	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 14:06	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 14:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-748102/1-A
Matrix: Water
Analysis Batch: 748269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 748102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 14:06	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*99*		*53 - 126*	*06/06/25 09:15*	*06/09/25 14:06*	*1*
Nitrobenzene-d5 (Surr)	*88*		*29 - 129*	*06/06/25 09:15*	*06/09/25 14:06*	*1*
p-Terphenyl-d14 (Surr)	*107*		*33 - 132*	*06/06/25 09:15*	*06/09/25 14:06*	*1*

Lab Sample ID: LCS 480-748102/2-A
Matrix: Water
Analysis Batch: 748269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	32.7		ug/L		102	60 - 120
Acenaphthylene	32.0	31.4		ug/L		98	63 - 120
Anthracene	32.0	36.1		ug/L		113	67 - 120
Benzo[a]anthracene	32.0	32.7		ug/L		102	70 - 121
Benzo[a]pyrene	32.0	32.0		ug/L		100	60 - 123
Benzo[b]fluoranthene	32.0	32.0		ug/L		100	66 - 126
Benzo[g,h,i]perylene	32.0	32.7		ug/L		102	66 - 150
Benzo[k]fluoranthene	32.0	34.6		ug/L		108	65 - 124
Chrysene	32.0	32.7		ug/L		102	69 - 120
Dibenz(a,h)anthracene	32.0	31.7		ug/L		99	65 - 135
Fluoranthene	32.0	36.0		ug/L		113	69 - 126
Fluorene	32.0	34.2		ug/L		107	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	31.6		ug/L		99	69 - 146
Naphthalene	32.0	30.8		ug/L		96	57 - 120
Phenanthrene	32.0	33.8		ug/L		106	68 - 120
Pyrene	32.0	34.1		ug/L		106	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*103*		*53 - 126*
Nitrobenzene-d5 (Surr)	*98*		*29 - 129*
p-Terphenyl-d14 (Surr)	*99*		*33 - 132*

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-748224/21
Matrix: Water
Analysis Batch: 748224

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00730	J	0.010	0.0041	mg/L			06/08/25 16:18	1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: MB 480-748224/47
Matrix: Water
Analysis Batch: 748224

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00790	J	0.010	0.0041	mg/L			06/08/25 17:46	1

Lab Sample ID: HLCS 480-748224/22
Matrix: Water
Analysis Batch: 748224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.392		mg/L		98	90 - 110

Lab Sample ID: LCS 480-748224/23
Matrix: Water
Analysis Batch: 748224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Lab Sample ID: LCS 480-748224/48
Matrix: Water
Analysis Batch: 748224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.242		mg/L		97	90 - 110

Lab Sample ID: MB 480-748704/21
Matrix: Water
Analysis Batch: 748704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00700	J	0.010	0.0041	mg/L			06/11/25 20:33	1

Lab Sample ID: HLCS 480-748704/22
Matrix: Water
Analysis Batch: 748704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.414		mg/L		103	90 - 110

Lab Sample ID: LCS 480-748704/23
Matrix: Water
Analysis Batch: 748704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.262		mg/L		105	90 - 110

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 747932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229920-1	MW6	Total/NA	Water	8260C	
480-229920-2	MW7	Total/NA	Water	8260C	
480-229920-3	MW8	Total/NA	Water	8260C	
480-229920-4	MW12RR	Total/NA	Water	8260C	
480-229920-5	MW13	Total/NA	Water	8260C	
480-229920-6	TB	Total/NA	Water	8260C	
MB 480-747932/8	Method Blank	Total/NA	Water	8260C	
LCS 480-747932/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 748102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229920-1	MW6	Total/NA	Water	3510C	
480-229920-2	MW7	Total/NA	Water	3510C	
480-229920-3	MW8	Total/NA	Water	3510C	
480-229920-4	MW12RR	Total/NA	Water	3510C	
480-229920-5	MW13	Total/NA	Water	3510C	
MB 480-748102/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748102/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 748269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229920-1	MW6	Total/NA	Water	8270D	748102
480-229920-2	MW7	Total/NA	Water	8270D	748102
480-229920-3	MW8	Total/NA	Water	8270D	748102
480-229920-4	MW12RR	Total/NA	Water	8270D	748102
480-229920-5	MW13	Total/NA	Water	8270D	748102
MB 480-748102/1-A	Method Blank	Total/NA	Water	8270D	748102
LCS 480-748102/2-A	Lab Control Sample	Total/NA	Water	8270D	748102

General Chemistry

Analysis Batch: 748224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229920-1	MW6	Total/NA	Water	9012B	
480-229920-2	MW7	Total/NA	Water	9012B	
480-229920-4	MW12RR	Total/NA	Water	9012B	
480-229920-5	MW13	Total/NA	Water	9012B	
MB 480-748224/21	Method Blank	Total/NA	Water	9012B	
MB 480-748224/47	Method Blank	Total/NA	Water	9012B	
HLCS 480-748224/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-748224/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-748224/48	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 748704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229920-3	MW8	Total/NA	Water	9012B	
MB 480-748704/21	Method Blank	Total/NA	Water	9012B	
HLCS 480-748704/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-748704/23	Lab Control Sample	Total/NA	Water	9012B	

Client Sample ID: MW6

Lab Sample ID: 480-229920-1

Date Collected: 06/03/25 12:30

Matrix: Water

Date Received: 06/04/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/05/25 00:19
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 21:14
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 17:25

Client Sample ID: MW7

Lab Sample ID: 480-229920-2

Date Collected: 06/03/25 13:10

Matrix: Water

Date Received: 06/04/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/05/25 00:41
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 21:41
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 17:29

Client Sample ID: MW8

Lab Sample ID: 480-229920-3

Date Collected: 06/03/25 12:10

Matrix: Water

Date Received: 06/04/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/05/25 01:03
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 22:08
Total/NA	Analysis	9012B		2	748704	GW	EET BUF	06/11/25 20:52

Client Sample ID: MW12RR

Lab Sample ID: 480-229920-4

Date Collected: 06/03/25 14:05

Matrix: Water

Date Received: 06/04/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/05/25 01:26
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 22:35
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 17:59

Client Sample ID: MW13

Lab Sample ID: 480-229920-5

Date Collected: 06/03/25 13:25

Matrix: Water

Date Received: 06/04/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/05/25 01:48
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 23:02
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 18:02

Lab Chronicle

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-229920-1

Client Sample ID: TB

Date Collected: 06/03/25 00:00
Date Received: 06/04/25 09:30

Lab Sample ID: 480-229920-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/05/25 02:10

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-229920-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-26

Shipping and Receiving Documents

Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: ED + AJ	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-205212-41609.1
Client Contact: ~~Mr. Jeff Holden~~ Wendy Moore + Emily Dallas	Phone: 607.216.8955	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 1
Company: GEI Consultants Inc	PWSID:			Job #:
Address: 950 Danby Road Suite 201-F	Due Date Requested: Std TAT	Analysis Requested		Preservation Codes: B - NaOH, N - None, A - HCL
City: Ithaca	TAT Requested (days): Std.			
State, Zip: NY, 14850	Compliance Project: Δ Yes Δ No			
Phone: 607-216-8956(Tel)	PO #: 1801687.1.8			
Email: wmoore ~~JHolden~~@geiconsultants.com edallas@geiconsultants.com	WO #:			Other:
Project Name: NFG Hornell	Project #: 48027937			
Site: Hornell Former MGP Site	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B_NP - Cyanide, Total	8270D - PAH Semivolatiles	8260C - VOCs - BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:							B	N	A		
MW6	6/3/25	12:30	G	Water	N	N	X	X	X		
MW7		13:10		Water			X	X	X		
MW8		12:10		Water			X	X	X		
MW12RR		14:05		Water			X	X	X		
MW13		13:25		Water			X	X	X		
TB		—		Water			—	—	X		

480-229920 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: Emily Dallas	Date/Time: 3/6/25 16:00	Company: GEI	Received by: FEDEX	Date/Time: 3/6/25 16:00	Company: FEDEX		
Relinquished by:	Date/Time:	Company:	Received by: [illegible]	Date/Time: 6/4/25 930 ET	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time	Company		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8 IR #5C ICE

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: GEI Consultants Inc

Job Number: 480-229920-1

Login Number: 229920
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix B Data Usability Summary Report

Site: Hornell, NY Groundwater Sampling
Laboratory: Eurofins, Amherst, NY
Report Number: 480-229920-1
Reviewer: Darionna Malone/GEI Consultants
Date: June 25, 2025

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	Level 2 Review
MW6	480-229920-1	BTEX, PAH, Cyanide
MW7	480-229920-2	BTEX, PAH, Cyanide
MW8	480-229920-3	BTEX, PAH, Cyanide
MW12RR	480-229920-4	BTEX, PAH, Cyanide
MW13	480-229920-5	BTEX, PAH, Cyanide
TB	480-229920-6	BTEX

Associated QC Samples:
Trip Blank: TB
Field Duplicate Pair: None associated

The above-listed aqueous samples were collected on June 3, 2025 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C, polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D, and total cyanide by SW-846 method 9012B. The data validation was performed in accordance with the following USEPA Region 2 Documents: Standard Operating Procedure (SOP) QA-HWSS-A-005 *Semivolatile Data Validation* (April 2022), SOP QA-HWSS-A-004 *Low/Medium Volatile Data Validation* (March 2022), and *USEPA Region 2 Standard Operating Procedures QA-HWSS-A-012 (SOPs) for the Evaluation of Cyanide for the Contract Laboratory Program* (March 2022), as well as by the methods referenced by the data package and professional and technical judgment.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Field Duplicate Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Serial Dilution Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. Select results were qualified as estimated due to blank contamination and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

Blanks

Contamination was not detected in the laboratory instrument and method blank samples, and field blank and trip blank samples. except where noted below.

Analyte	Blank ID/ Associated Samples	Blank Concentration	2X Action Level	10X Action Level	Validation Actions
Cyanide	MB 480-748224/21/ MW6, MW7, MW12RR, MW13	0.0073 mg/L	0.0146 mg/L	0.073 mg/L	Estimate (J) results for cyanide in samples MW6, MW13, and MW12RR. High Bias.
Cyanide	MB 480-748224/47/ MW6, MW7, MW12RR, MW13	0.0070 mg/L	0.0140 mg/L	0.070 mg/L	
Cyanide	ICB 480-748224/16/ MW6, MW7, MW12RR, MW13	0.0077 mg/L	0.0154 mg/L	0.077 mg/L	
Cyanide	CCB 480-748224/30/ MW6, MW7	0.0080 mg/L	0.0160 mg/L	0.080 mg/L	
Cyanide	CCB 480-748224/44/ MW6, MW7, MW12RR, MW13	0.0077 mg/L	0.0154 mg/L	0.077 mg/L	
Cyanide	CCB 480-748224/58/ MW12RR, MW13	0.0087 mg/L	0.0174 mg/L	0.087 mg/L	
Cyanide	MB 480-748704/21/ MW8	0.0073 mg/L	0.0146 mg/L	0.073 mg/L	

Analyte	Blank ID/ Associated Samples	Blank Concentration	2X Action Level	10X Action Level	Validation Actions
Cyanide	ICB 480-748704/15/ MW8	0.0075 mg/L	0.0150 mg/L	0.075 mg/L	No validation action required.
Cyanide	CCB 480-748704/20/ MW8	0.0075 mg/L	0.0150 mg/L	0.075 mg/L	
Cyanide	CCB 480-748704/30/ MW8	0.0082 mg/L	0.0164 mg/L	0.082 mg/L	

Blank Actions:
If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.
If the sample result is ≥ RL and <blank contamination detected; report the result as nondetect (U) at the reported value.
If the sample result is ≥ RL and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or ≥ 10x Action Level; validation action is not required.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were not performed.

Laboratory Duplicate Results

Laboratory duplicate analysis was not performed.

Field Duplicate Results

None associated with project.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). If detected, these results were qualified as estimated (J) by the laboratory. The direction of the bias is indeterminate for these results.

The following table lists the sample dilutions which were performed to bring results within the instrument calibration range.

Sample	Analysis	Dilution Performed
MW-8	Cyanide	The sample was analyzed at a 2-fold dilution due to high analyte level.

Serial Dilution Results

A serial dilution analysis was not performed.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Appendix C Pre- and Post-Remedial Groundwater Data Table

Hornell Former MGP Site
Pre- and Post-Remediation Groundwater Analysis Results
National Fuel Gas
Hornell, NY

				Pre-Remediation	Post-Remediation				Pre-Remediation	Post-Remediation				
			Sample Name	MW-6	MW6	MW6	MW6	MW6	MW-7	MW7	MW7	DUP-MW7	MW7	MW7
			Sample Date	8/18/2020	8/13/2024	11/25/2024	3/18/2025	6/3/2025	8/18/2020	8/13/2024	11/25/2024	11/25/2024	3/18/2025	6/3/2025
Analyte	**Units**	**CAS No.**	**NYS AWQS**											
BTEX	ug/L													
Benzene		71-43-2	1	1 U	**0.41 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene		95-47-6	5	--	1 U	--	--	--	--	1 U	--	--	--	--
m/p-Xylene		179601-23-1	5	--	2 U	--	--	--	--	2 U	--	--	--	--
Total Xylene		1330-20-7	5	3 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		N/A	NE	ND	**0.41**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total BTEX (Lab Calculated)		N/A	NE	--	2 U	--	--	--	--	--	--	--	--	--
PAH17	ug/L													
Acenaphthene		83-32-9	20*	**4.7**	**5.3**	**6.7**	**6.2**	**4.9 J**	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Acenaphthylene		208-96-8	NE	**1.1**	**1.7 J**	**2.2 J**	**1.9 J**	**1.3 J**	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Anthracene		120-12-7	50*	**0.13**	5 U	5 U	5 U	5.4 U	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Fluoranthene		206-44-0	50*	**0.18**	5 U	5 U	5 U	5.4 U	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Fluorene		86-73-7	50*	**3.1**	**5.4 J**	**7.1**	**6.4**	**5.4**	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Naphthalene		91-20-3	10*	**0.15**	5 U	5 U	5 U	5.4 U	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Phenanthrene		85-01-8	50*	**0.23**	5 U	5 U	5 U	5.4 U	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Pyrene		129-00-0	50*	**0.085**	5 U	5 U	5 U	5.4 U	0.02 U	5.2 U	5 U	5 U	5 U	5.2 U
Total PAH (17)		N/A	NE	**9.7**	**12.4**	**16**	**14.5**	**11.6**	ND	ND	ND	ND	ND	ND
Dissolved Metals	ug/L													
Iron		7439-89-6	300	**30.2 J**	--	**1500**	--	--	**140**	--	**100 J**	**100 J**	--	--
Manganese		7439-96-5	300	**725**	--	**520**	--	--	**61.4**	--	**7.6**	**8.5**	--	--
Total Metals	ug/L													
Iron		7439-89-6	300	**4,900**	--	**2200**	--	--	**1,840**	--	**140 J**	**160 J**	--	--
Manganese		7439-96-5	300	**758**	--	**550**	--	--	**125**	--	**14**	**22**	--	--
Cyanides	ug/L													
Total Cyanide		57-12-5	200	10 U	**43**	**31**	**45 J**	**48 J**	10 U	**190**	**260**	**270**	**190 J**	**100**
Other														
Alkalinity	ug/L	ALK	NE	--	--	**307000 J**	--	--	--	--	**321000 J**	**315000 J**	--	--
Ammonia	ug/L	7664-41-7	2000	--	--	**820**	--	--	--	--	**860**	**580**	--	--
Dissolved Organic Carbon	ug/L	DOC	NE	--	--	**690 J**	--	--	--	--	**910 J**	**860 J**	--	--
Methane	ug/L	74-82-8	NE	**37.8**	--	**61**	--	--	1 U	--	4 U	4 U	--	--
Nitrate as Nitrogen	ug/L	14797-55-8	10000	--	--	**340 J**	--	--	--	--	**4000 J**	**3000 J**	--	--
Nitrate and Nitrite as Nitrogen	ug/L	NO2/NO3	10000	--	--	**340 J**	--	--	--	--	**4000 J**	**3000 J**	--	--
Sulfate	ug/L	14808-79-8	250000	**24,800**	--	**39700**	--	--	**33,600**	--	**29200**	**38400**	--	--
Total Organic Carbon	ug/L	TOC	NE	--	--	**740 J**	--	--	--	--	**950 J**	**900 J**	--	--

Hornell Former MGP Site
Pre- and Post-Remediation Groundwater Analysis Results
National Fuel Gas
Hornell, NY

				Pre-Remediation	Post-Remediation				Pre-Remediation	Post-Remediation			
			Sample Name	MW-8	MW8	MW8	MW8	MW8	MW-12	MW12R	MW12RR	MW12RR	MW12RR
			Sample Date	8/18/2020	8/13/2024	11/25/2024	3/18/2025	6/3/2025	8/17/2020	8/13/2024	11/25/2024	3/18/2025	6/3/2025
Analyte	**Units**	**CAS No.**	**NYS AWQS**										
BTEX	ug/L												
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	**320**	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	**120**	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	**28**	1 U	1 U	1 U
o-Xylene		95-47-6	5	--	1 U	--	--	--	--	**63**	--	--	--
m/p-Xylene		179601-23-1	5	--	2 U	--	--	--	--	**99**	--	--	--
Total Xylene		1330-20-7	5	3 U	2 U	2 U	2 U	2 U	3 U	**160**	2 U	2 U	2 U
Total BTEX (ND=0)		N/A	NE	ND	ND	ND	ND	ND	ND	**630**	ND	ND	ND
Total BTEX (Lab Calculated)		N/A	NE	--	2 U	--	--	--	--	**630**	--	--	--
PAH17	ug/L												
Acenaphthene		83-32-9	20*	0.02 U	5.2 U	5 U	5 U	5 U	0.02 U	**11**	10 U	25 U	5 U
Acenaphthylene		208-96-8	NE	0.02 U	5.2 U	5 U	5 U	5 U	**0.09**	**5.4**	10 U	25 U	5 U
Anthracene		120-12-7	50*	0.02 U	5.2 U	5 U	5 U	5 U	**0.031**	**0.77 J**	10 U	25 U	5 U
Fluoranthene		206-44-0	50*	0.02 U	5.2 U	5 U	5 U	5 U	0.02 U	**0.5 J**	10 U	25 U	5 U
Fluorene		86-73-7	50*	0.02 U	5.2 U	5 U	5 U	5 U	0.02 U	**2.4 J**	10 U	25 U	5 U
Naphthalene		91-20-3	10*	**0.024**	5.2 U	5 U	5 U	5 U	**0.057**	**640**	10 U	25 U	5 U
Phenanthrene		85-01-8	50*	0.02 U	5.2 U	5 U	5 U	5 U	0.02 U	**2.8 J**	10 U	25 U	5 U
Pyrene		129-00-0	50*	0.02 U	5.2 U	5 U	5 U	5 U	0.02 U	**0.53 J**	10 U	25 U	5 U
Total PAH (17)		N/A	NE	**0.024**	ND	ND	ND	ND	**0.178**	**663.4**	ND	ND	5 U
Dissolved Metals	ug/L												
Iron		7439-89-6	300	**22.8 J**	--	50 U	--	--	**53.3**	--	50 U	--	--
Manganese		7439-96-5	300	10 U	--	3 U	--	--	**1,670**	--	**210**	--	--
Total Metals	ug/L												
Iron		7439-89-6	300	**876**	--	50 U	--	--	**268**	--	50 U	--	--
Manganese		7439-96-5	300	**56**	--	3 U	--	--	**1,710**	--	**220**	--	--
Cyanides	ug/L												
Total Cyanide		57-12-5	200	10 U	**700**	**36**	**51 J**	**760 J**	**0.12**	**120**	**17**	**28 J**	**83**
Other													
Alkalinity	ug/L	ALK	NE	--	--	**261000 J**	--	--	--	--	**286000 J**	--	--
Ammonia	ug/L	7664-41-7	2000	--	--	**430**	--	--	--	--	**430**	--	--
Dissolved Organic Carbon	ug/L	DOC	NE	--	--	1000 U	--	--	--	--	1000 U	--	--
Methane	ug/L	74-82-8	NE	1 U	--	4 U	--	--	1 U	--	4 U	--	--
Nitrate as Nitrogen	ug/L	14797-55-8	10000	--	--	**4900 J**	--	--	--	--	**2400 J**	--	--
Nitrate and Nitrite as Nitrogen	ug/L	NO2/NO3	10000	--	--	**4900 J**	--	--	--	--	**2400 J**	--	--
Sulfate	ug/L	14808-79-8	250000	**38,100**	--	**30000**	--	--	**55400**	--	**27700**	--	--
Total Organic Carbon	ug/L	TOC	NE	--	--	1000 U	--	--	--	--	1000 U	--	--

Hornell Former MGP Site
Pre- and Post-Remediation Groundwater Analysis Results
National Fuel Gas
Hornell, NY

				Pre-Remediation	Post-Remediation		
			Sample Name	MW-13	MW13	MW13	MW13
			Sample Date	8/18/2020	11/25/2024	3/18/2025	6/3/2025
Analyte	**Units**	**CAS No.**	**NYS AWQS**				
BTEX	ug/L						
Benzene		71-43-2	1	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U
o-Xylene		95-47-6	5	--	--	--	--
m/p-Xylene		179601-23-1	5	--	--	--	--
Total Xylene		1330-20-7	5	3 U	2 U	2 U	2 U
Total BTEX (ND=0)		N/A	NE	ND	ND	ND	ND
Total BTEX (Lab Calculated)		N/A	NE	--	--	--	--
PAH17	ug/L						
Acenaphthene		83-32-9	20*	0.02 U	5 U	5 U	5 U
Acenaphthylene		208-96-8	NE	0.02 U	5 U	5 U	5 U
Anthracene		120-12-7	50*	0.02 U	5 U	5 U	5 U
Fluoranthene		206-44-0	50*	0.02 U	5 U	5 U	5 U
Fluorene		86-73-7	50*	0.02 U	5 U	5 U	5 U
Naphthalene		91-20-3	10*	0.02 U	5 U	5 U	5 U
Phenanthrene		85-01-8	50*	0.02 U	5 U	5 U	5 U
Pyrene		129-00-0	50*	0.02 U	5 U	5 U	5 U
Total PAH (17)		N/A	NE	ND	ND	ND	ND
Dissolved Metals	ug/L						
Iron		7439-89-6	300	20 U	50 U	--	--
Manganese		7439-96-5	300	10 U	3 U	--	--
Total Metals	ug/L						
Iron		7439-89-6	300	**23.4 J**	50 U	--	--
Manganese		7439-96-5	300	**58.3**	**13 J**	--	--
Cyanides	ug/L						
Total Cyanide		57-12-5	200	10 U	**7.7 J**	**42 J**	**83**
Other							
Alkalinity	ug/L	ALK	NE	--	**256000 J**	--	--
Ammonia	ug/L	7664-41-7	2000	--	**220 J**	--	--
Dissolved Organic Carbon	ug/L	DOC	NE	--	1000 U	--	--
Methane	ug/L	74-82-8	NE	1 U	4 U	--	--
Nitrate as Nitrogen	ug/L	14797-55-8	10000	--	**5800 J**	--	--
Nitrate and Nitrite as Nitrogen	ug/L	NO2/NO3	10000	--	**5800 J**	--	--
Sulfate	ug/L	14808-79-8	250000	**30500**	**26900**	--	--
Total Organic Carbon	ug/L	TOC	NE	--	1000 U	--	--

Hornell Former MGP Site
Pre- and Post-Remediation Groundwater Analysis Results
National Fuel Gas
Hornell, NY

Notes:
Analytes in blue are not detected in any sample
ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.
Total PAH17 is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

CAS No. = Chemical Abstracts Service Number
MGP = Manufactured Gas Plant
ND = Not Detected
NE = Not Established
-- = Compound Not Analyzed
Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Validation Qualifiers:
J = The result is an estimated value.
R = The result is rejected.
U = The result was not detected above the reporting limit.