

October 28, 2025
Project 1801687

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

**Re: Groundwater Monitoring Results
September 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 September 11, 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, 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 two years, along with other site management components (primarily annual site inspections). This sampling event was the fifth 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 September 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. Six of the wells are screened across the water table. One well (MW-15) is piezometer with a two-foot screen set approximately 20 feet below the water table. Table 1 summarizes the monitoring well designations, surveyed well elevation data, screened interval, depth-to-water measurements, and groundwater elevations reflecting measurement data from September 11, 2025.

Based on that data, Figure 1 depicts the inferred shallow groundwater contours at the water table. As shown, shallow groundwater flow is inferred to be generally toward the east/southeast and consistent with prior site data. The highest groundwater elevation measurement was in the western area of the site at MW13 (1141.31 feet NAVD88). The lowest groundwater elevation measurement was in the eastern area of the site at MW4 (1140.67 feet NAVD88). The overall change in the elevation of the water table across the site was 0.64 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 well.

Groundwater Sampling

Groundwater sampling was performed on September 11, 2025. Samples were collected from monitoring wells MW6, MW7, MW8, MW12RR and MW13, as prescribed in the ISMP. Additional samples were collected and analyzed for quality assurance/quality control (QA/QC), including a field blank, a trip blank (BTEX only), a blind duplicate, a matrix spike sample, and a matrix spike duplicate.

The samples were submitted to Eurofins of Amherst, 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 9014.¹ 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 (no exceedances were reported during this event) and the entire dataset is tabulated in Table 2.

¹ Samples were also collected for monitored natural attenuation (MNA) parameters during this quarter; however, due to shipping issues that resulted in delayed delivery (and analyses outside the required hold limits) and broken vials, the MNA laboratory analyses were canceled and are planned for re-collection during the next quarterly event).

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 with minor qualification due to sample matrix or laboratory quality control outliers. All results were qualified as estimated due to samples arriving at the laboratory out of temperature range because of a three-day shipping delay that resulted in the ice in the coolers completely melting. Some results were also qualified as estimated due to uncertainty for levels below the reporting limit and MS/MD recovery outliers. The resulting qualifications are discussed in Appendix B.

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 (none during this event). 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.

Implementation of the Post-Remedial Monitoring Work Plan

As noted above, the groundwater monitoring program will continue quarterly for two years per the ISMP. The next groundwater monitoring event is expected to be conducted in December 2025, which will include sampling of MNA parameters, as described in the ISMP. NYSDEC will be notified at least seven 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



Emily Dallas
Project Scientist

Project Manager

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 Q3 GWS\Summary Report\Hornell Q3 2025 GW Report_2025-10-28.docx

Tables

**Table 1. Groundwater Elevation Summary and NAPL Gauging Results –
September 2025 Monitoring Event**

Table 2. September 2025 Groundwater Analytical Results

**Table 1. Groundwater Elevation Summary and NAPL Gauging Results
3rd Quarter 2025 Groundwater Monitoring Event
Hornell Former MGP Site**

Well ID	PVC Riser Reference Elevation (Feet NAVD88)	Screened Interval (feet below top of inner casing)	Depth to Water September 11, 2025 (Feet below top of inner casing)	Groundwater Elevation September 11, 2025 (Feet NAVD88)	NAPL Gauging Results
MW4	1156.23	12 - 22	15.56	1140.67	Not Present
MW6	1157.86	12 - 22	16.91	1140.95	Not Present
MW7	1155.74	13 - 23	14.82	1140.92	Not Present
MW8	1158.26	13 - 23	17.06	1141.20	Not Present
MW12RR	1156.99	13 - 23	16.05	1140.94	Not Present
MW13	1156.92	12 - 22	15.61	1141.31	Not Present
MW15	1156.10	33 - 35	14.92	1141.18	Not Present

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

Sample Name Sample Date Parent Sample				MW-6 9/11/2025 N/A	MW-7 9/11/2025 N/A	MW-8 9/11/2025 N/A	MW-12RR 9/11/2025 N/A	091125-DUP 9/11/2025 MW-12RR	MW-13 9/11/2025 N/A
Analyte	Units	CAS No.	NYS AWQS						
BTEX	ug/L								
Benzene		71-43-2	1	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Toluene		108-88-3	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Ethylbenzene		100-41-4	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Total Xylene		1330-20-7	5	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Total BTEX		N/A	NE	ND	ND	ND	ND	ND	ND
PAHs	ug/L								
Acenaphthene		83-32-9	20*	6.3 J	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Acenaphthylene		208-96-8	NE	1.7 J	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Anthracene		120-12-7	50*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Benzo(a)anthracene		56-55-3	0.002*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Benzo(b)fluoranthene		205-99-2	0.002*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Benzo(k)fluoranthene		207-08-9	0.002*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Benzo(g,h,i)perylene		191-24-2	NE	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Benzo(a)pyrene		50-32-8	ND	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Chrysene		218-01-9	0.002*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Dibenz(a,h)anthracene		53-70-3	NE	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Fluoranthene		206-44-0	50*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Fluorene		86-73-7	50*	5.9 J	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Naphthalene		91-20-3	10*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Phenanthrene		85-01-8	50*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
Pyrene		129-00-0	50*	5.4 UJ	5.2 UJ	6.3 UJ	5 UJ	5 UJ	5.2 UJ
		N/A	NE	13.9 J	ND	ND	ND	ND	ND
Cyanides	ug/L								
Total Cyanide		57-12-5	200	19 J	100 J	30 J	14 J	14 J	8.6 J

**Table 2. Hornell Former MGP
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

PAHs = 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

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

N/A = Not Applicable

Black text in Analyte field indicates constituent has been detected at least once in the dataset; blue text indicates no detects

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:

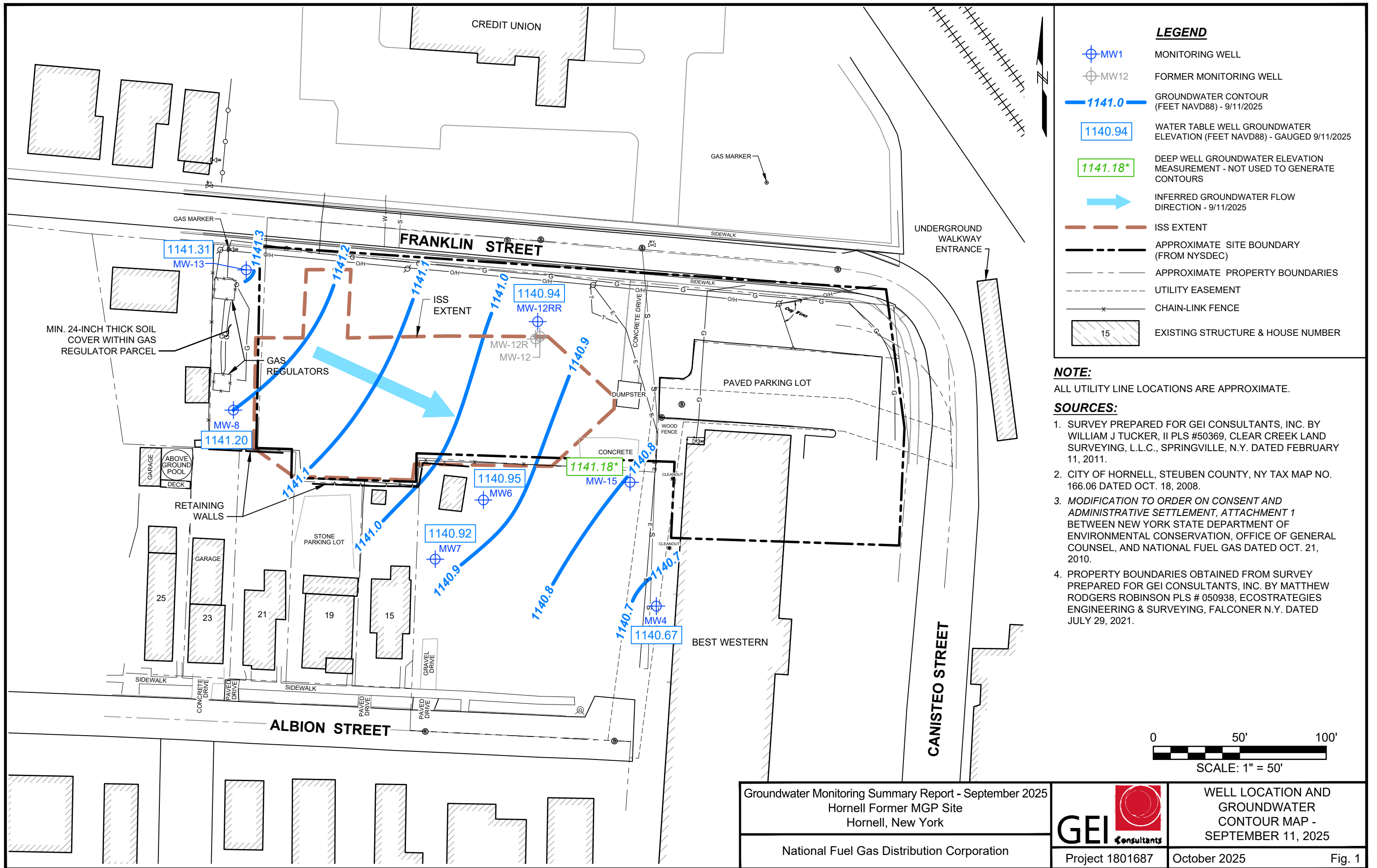
J = The result is an estimated value

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 – September 2025



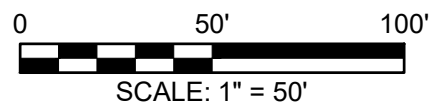
LEGEND

- MW1 MONITORING WELL
- MW12 FORMER MONITORING WELL
- 1141.0 GROUNDWATER CONTOUR (FEET NAVD88) - 9/11/2025
- 1140.94 WATER TABLE WELL GROUNDWATER ELEVATION (FEET NAVD88) - GAUGED 9/11/2025
- 1141.18* DEEP WELL GROUNDWATER ELEVATION MEASUREMENT - NOT USED TO GENERATE CONTOURS
- INFERRED GROUNDWATER FLOW DIRECTION - 9/11/2025
- 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:

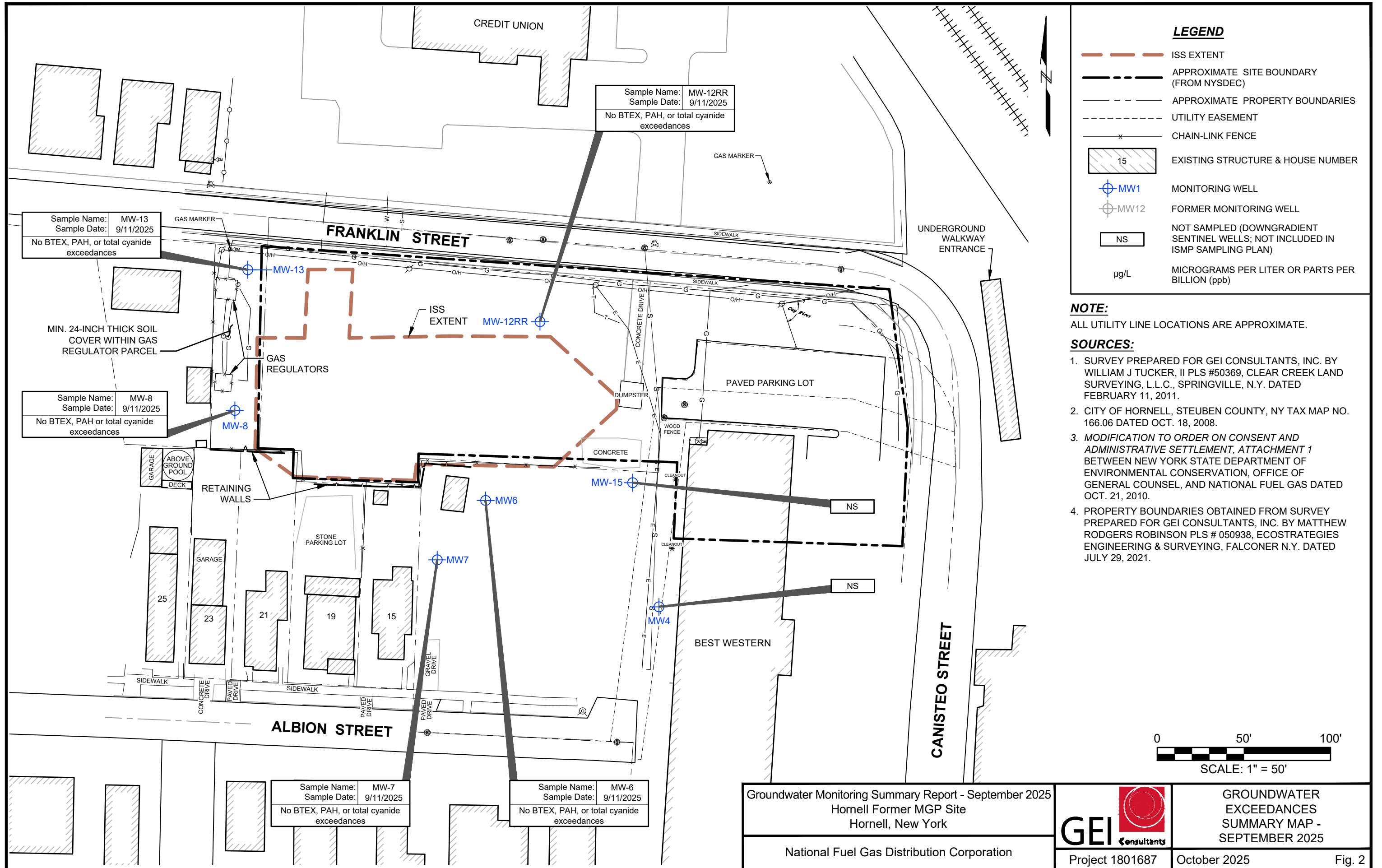
1. SURVEY PREPARED FOR GEI CONSULTANTS, INC. BY WILLIAM J TUCKER, II PLS #50369, CLEAR CREEK LAND SURVEYING, L.L.C., SPRINGVILLE, N.Y. DATED FEBRUARY 11, 2011.
2. CITY OF HORNELL, STEUBEN COUNTY, NY TAX MAP NO. 166.06 DATED OCT. 18, 2008.
3. MODIFICATION TO ORDER ON CONSENT AND ADMINISTRATIVE SETTLEMENT, 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.



Groundwater Monitoring Summary Report - September 2025
 Hornell Former MGP Site
 Hornell, New York
 National Fuel Gas Distribution Corporation



WELL LOCATION AND GROUNDWATER CONTOUR MAP - SEPTEMBER 11, 2025
 Project 1801687
 October 2025
 Fig. 1



Sample Name: MW-12RR
 Sample Date: 9/11/2025
 No BTEX, PAH, or total cyanide exceedances

Sample Name: MW-13
 Sample Date: 9/11/2025
 No BTEX, PAH, or total cyanide exceedances

Sample Name: MW-8
 Sample Date: 9/11/2025
 No BTEX, PAH, or total cyanide exceedances

Sample Name: MW-7
 Sample Date: 9/11/2025
 No BTEX, PAH, or total cyanide exceedances

Sample Name: MW-6
 Sample Date: 9/11/2025
 No BTEX, PAH, or total cyanide exceedances

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

National Fuel Gas Distribution Corporation



GROUNDWATER EXCEEDANCES SUMMARY MAP - SEPTEMBER 2025

Project 1801687

October 2025

Fig. 2

Groundwater Monitoring Results
September 2025 Event
NYSDEC Site # 851032
October 28, 2025

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

 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 09/19/2025

JOB DESCRIPTION

NFG Hornell

JOB NUMBER

480-232604-1

Eurofins Buffalo

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



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09/19/2025

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**Job Narrative
480-232604-1**

Receipt

The samples were received on 9/15/2025 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 21.8° C and 22.5° C.

Receipt Exceptions

The following sample(s) was received outside of holding time: Lab received samples out of hold for the nitrate method, due to Fedex delay.

The following sample(s) was received at the laboratory outside the required temperature criteria: Lab received samples out of temp due to Fedex delay. This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

One or more containers for the following sample(s) was received broken or leaking: Lab received two broken HCL preserved vials for RSK method. One vial remains for analysis.

GC/MS VOA

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

GC/MS Semi VOA

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

General Chemistry

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

Organic Prep

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

Sample Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
480-232604-1	MW-6	Water	09/11/25 12:55	09/15/25 13:00	New York
480-232604-2	MW-7	Water	09/11/25 14:30	09/15/25 13:00	New York
480-232604-3	MW-8	Water	09/11/25 12:25	09/15/25 13:00	New York
480-232604-4	MW-12RR	Water	09/11/25 15:35	09/15/25 13:00	New York
480-232604-5	MW-13	Water	09/11/25 13:55	09/15/25 13:00	New York
480-232604-6	091125-DUP	Water	09/11/25 00:00	09/15/25 13:00	New York
480-232604-7	091125-RB	Water	09/11/25 16:15	09/15/25 13:00	New York
480-232604-8	TRIP BLANK	Water	09/11/25 12:25	09/15/25 13:00	New York

Detection Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: MW-6

Lab Sample ID: 480-232604-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	6.3		5.4	0.45	ug/L	1		8270D	Total/NA
Acenaphthylene	1.7	J	5.4	0.41	ug/L	1		8270D	Total/NA
Fluorene	5.9		5.4	0.39	ug/L	1		8270D	Total/NA
Cyanide, Total	0.019	F1	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 480-232604-2

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

Client Sample ID: MW-8

Lab Sample ID: 480-232604-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.030		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-12RR

Lab Sample ID: 480-232604-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.014	F1	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 480-232604-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0086	J F1	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: 091125-DUP

Lab Sample ID: 480-232604-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.014		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: 091125-RB

Lab Sample ID: 480-232604-7

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-232604-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

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 Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: MW-6

Lab Sample ID: 480-232604-1

Date Collected: 09/11/25 12:55

Matrix: Water

Date Received: 09/15/25 13:00

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			09/16/25 03:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 03:13	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 03:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/16/25 03:13	1
4-Bromofluorobenzene (Surr)	110		73 - 120		09/16/25 03:13	1
Dibromofluoromethane (Surr)	98		75 - 123		09/16/25 03:13	1
Toluene-d8 (Surr)	110		80 - 120		09/16/25 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6.3		5.4	0.45	ug/L		09/16/25 13:27	09/17/25 17:35	1
Acenaphthylene	1.7	J	5.4	0.41	ug/L		09/16/25 13:27	09/17/25 17:35	1
Anthracene	ND		5.4	0.30	ug/L		09/16/25 13:27	09/17/25 17:35	1
Benzo[a]anthracene	ND		5.4	0.39	ug/L		09/16/25 13:27	09/17/25 17:35	1
Benzo[a]pyrene	ND		5.4	0.51	ug/L		09/16/25 13:27	09/17/25 17:35	1
Benzo[b]fluoranthene	ND		5.4	0.37	ug/L		09/16/25 13:27	09/17/25 17:35	1
Benzo[g,h,i]perylene	ND		5.4	0.38	ug/L		09/16/25 13:27	09/17/25 17:35	1
Benzo[k]fluoranthene	ND		5.4	0.79	ug/L		09/16/25 13:27	09/17/25 17:35	1
Chrysene	ND		5.4	0.36	ug/L		09/16/25 13:27	09/17/25 17:35	1
Dibenz(a,h)anthracene	ND		5.4	0.46	ug/L		09/16/25 13:27	09/17/25 17:35	1
Fluoranthene	ND		5.4	0.43	ug/L		09/16/25 13:27	09/17/25 17:35	1
Fluorene	5.9		5.4	0.39	ug/L		09/16/25 13:27	09/17/25 17:35	1
Indeno[1,2,3-cd]pyrene	ND		5.4	0.51	ug/L		09/16/25 13:27	09/17/25 17:35	1
Naphthalene	ND		5.4	0.83	ug/L		09/16/25 13:27	09/17/25 17:35	1
Phenanthrene	ND		5.4	0.48	ug/L		09/16/25 13:27	09/17/25 17:35	1
Pyrene	ND		5.4	0.37	ug/L		09/16/25 13:27	09/17/25 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	96		53 - 126	09/16/25 13:27	09/17/25 17:35	1
Nitrobenzene-d5 (Surr)	86		29 - 129	09/16/25 13:27	09/17/25 17:35	1
p-Terphenyl-d14 (Surr)	95		33 - 132	09/16/25 13:27	09/17/25 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.019	F1	0.010	0.0041	mg/L			09/16/25 17:40	1

Client Sample ID: MW-7

Lab Sample ID: 480-232604-2

Date Collected: 09/11/25 14:30

Matrix: Water

Date Received: 09/15/25 13:00

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			09/16/25 03:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 03:36	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 03:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 03:36	1

Client Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: MW-7

Lab Sample ID: 480-232604-2

Date Collected: 09/11/25 14:30

Matrix: Water

Date Received: 09/15/25 13:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		09/16/25 03:36	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/16/25 03:36	1
Dibromofluoromethane (Surr)	103		75 - 123		09/16/25 03:36	1
Toluene-d8 (Surr)	92		80 - 120		09/16/25 03:36	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		09/16/25 13:27	09/17/25 18:02	1
Acenaphthylene	ND		5.2	0.40	ug/L		09/16/25 13:27	09/17/25 18:02	1
Anthracene	ND		5.2	0.29	ug/L		09/16/25 13:27	09/17/25 18:02	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		09/16/25 13:27	09/17/25 18:02	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		09/16/25 13:27	09/17/25 18:02	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		09/16/25 13:27	09/17/25 18:02	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		09/16/25 13:27	09/17/25 18:02	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		09/16/25 13:27	09/17/25 18:02	1
Chrysene	ND		5.2	0.34	ug/L		09/16/25 13:27	09/17/25 18:02	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		09/16/25 13:27	09/17/25 18:02	1
Fluoranthene	ND		5.2	0.42	ug/L		09/16/25 13:27	09/17/25 18:02	1
Fluorene	ND		5.2	0.38	ug/L		09/16/25 13:27	09/17/25 18:02	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		09/16/25 13:27	09/17/25 18:02	1
Naphthalene	ND		5.2	0.79	ug/L		09/16/25 13:27	09/17/25 18:02	1
Phenanthrene	ND		5.2	0.46	ug/L		09/16/25 13:27	09/17/25 18:02	1
Pyrene	ND		5.2	0.35	ug/L		09/16/25 13:27	09/17/25 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		53 - 126	09/16/25 13:27	09/17/25 18:02	1
Nitrobenzene-d5 (Surr)	71		29 - 129	09/16/25 13:27	09/17/25 18:02	1
p-Terphenyl-d14 (Surr)	89		33 - 132	09/16/25 13:27	09/17/25 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.10		0.010	0.0041	mg/L			09/16/25 17:48	1

Client Sample ID: MW-8

Lab Sample ID: 480-232604-3

Date Collected: 09/11/25 12:25

Matrix: Water

Date Received: 09/15/25 13:00

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			09/16/25 03:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 03:59	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 03:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		09/16/25 03:59	1
4-Bromofluorobenzene (Surr)	102		73 - 120		09/16/25 03:59	1
Dibromofluoromethane (Surr)	105		75 - 123		09/16/25 03:59	1
Toluene-d8 (Surr)	96		80 - 120		09/16/25 03:59	1

Client Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: MW-8

Lab Sample ID: 480-232604-3

Date Collected: 09/11/25 12:25

Matrix: Water

Date Received: 09/15/25 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		6.3	0.51	ug/L		09/16/25 13:27	09/17/25 18:30	1
Acenaphthylene	ND		6.3	0.48	ug/L		09/16/25 13:27	09/17/25 18:30	1
Anthracene	ND		6.3	0.35	ug/L		09/16/25 13:27	09/17/25 18:30	1
Benzo[a]anthracene	ND		6.3	0.45	ug/L		09/16/25 13:27	09/17/25 18:30	1
Benzo[a]pyrene	ND		6.3	0.59	ug/L		09/16/25 13:27	09/17/25 18:30	1
Benzo[b]fluoranthene	ND		6.3	0.43	ug/L		09/16/25 13:27	09/17/25 18:30	1
Benzo[g,h,i]perylene	ND		6.3	0.44	ug/L		09/16/25 13:27	09/17/25 18:30	1
Benzo[k]fluoranthene	ND		6.3	0.91	ug/L		09/16/25 13:27	09/17/25 18:30	1
Chrysene	ND		6.3	0.41	ug/L		09/16/25 13:27	09/17/25 18:30	1
Dibenz(a,h)anthracene	ND		6.3	0.53	ug/L		09/16/25 13:27	09/17/25 18:30	1
Fluoranthene	ND		6.3	0.50	ug/L		09/16/25 13:27	09/17/25 18:30	1
Fluorene	ND		6.3	0.45	ug/L		09/16/25 13:27	09/17/25 18:30	1
Indeno[1,2,3-cd]pyrene	ND		6.3	0.59	ug/L		09/16/25 13:27	09/17/25 18:30	1
Naphthalene	ND		6.3	0.95	ug/L		09/16/25 13:27	09/17/25 18:30	1
Phenanthrene	ND		6.3	0.55	ug/L		09/16/25 13:27	09/17/25 18:30	1
Pyrene	ND		6.3	0.43	ug/L		09/16/25 13:27	09/17/25 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		53 - 126				09/16/25 13:27	09/17/25 18:30	1
Nitrobenzene-d5 (Surr)	72		29 - 129				09/16/25 13:27	09/17/25 18:30	1
p-Terphenyl-d14 (Surr)	86		33 - 132				09/16/25 13:27	09/17/25 18:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.030		0.010	0.0041	mg/L			09/16/25 18:25	1

Client Sample ID: MW-12RR

Lab Sample ID: 480-232604-4

Date Collected: 09/11/25 15:35

Matrix: Water

Date Received: 09/15/25 13:00

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			09/16/25 04:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 04:23	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 04:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					09/16/25 04:23	1
4-Bromofluorobenzene (Surr)	90		73 - 120					09/16/25 04:23	1
Dibromofluoromethane (Surr)	105		75 - 123					09/16/25 04:23	1
Toluene-d8 (Surr)	99		80 - 120					09/16/25 04:23	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		09/16/25 13:27	09/17/25 17:07	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/16/25 13:27	09/17/25 17:07	1
Anthracene	ND		5.0	0.28	ug/L		09/16/25 13:27	09/17/25 17:07	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 17:07	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 17:07	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 17:07	1

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Client Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: MW-12RR

Lab Sample ID: 480-232604-4

Date Collected: 09/11/25 15:35

Matrix: Water

Date Received: 09/15/25 13:00

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		5.0	0.35	ug/L		09/16/25 13:27	09/17/25 17:07	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/16/25 13:27	09/17/25 17:07	1
Chrysene	ND		5.0	0.33	ug/L		09/16/25 13:27	09/17/25 17:07	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/16/25 13:27	09/17/25 17:07	1
Fluoranthene	ND		5.0	0.40	ug/L		09/16/25 13:27	09/17/25 17:07	1
Fluorene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 17:07	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 17:07	1
Naphthalene	ND		5.0	0.76	ug/L		09/16/25 13:27	09/17/25 17:07	1
Phenanthrene	ND		5.0	0.44	ug/L		09/16/25 13:27	09/17/25 17:07	1
Pyrene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		53 - 126	09/16/25 13:27	09/17/25 17:07	1
Nitrobenzene-d5 (Surr)	79		29 - 129	09/16/25 13:27	09/17/25 17:07	1
p-Terphenyl-d14 (Surr)	90		33 - 132	09/16/25 13:27	09/17/25 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.014	F1	0.010	0.0041	mg/L			09/16/25 18:01	1

Client Sample ID: MW-13

Lab Sample ID: 480-232604-5

Date Collected: 09/11/25 13:55

Matrix: Water

Date Received: 09/15/25 13:00

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			09/16/25 04:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 04:46	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 04:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		09/16/25 04:46	1
4-Bromofluorobenzene (Surr)	102		73 - 120		09/16/25 04:46	1
Dibromofluoromethane (Surr)	106		75 - 123		09/16/25 04:46	1
Toluene-d8 (Surr)	97		80 - 120		09/16/25 04:46	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		09/16/25 13:27	09/17/25 18:58	1
Acenaphthylene	ND		5.2	0.40	ug/L		09/16/25 13:27	09/17/25 18:58	1
Anthracene	ND		5.2	0.29	ug/L		09/16/25 13:27	09/17/25 18:58	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		09/16/25 13:27	09/17/25 18:58	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		09/16/25 13:27	09/17/25 18:58	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		09/16/25 13:27	09/17/25 18:58	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		09/16/25 13:27	09/17/25 18:58	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		09/16/25 13:27	09/17/25 18:58	1
Chrysene	ND		5.2	0.34	ug/L		09/16/25 13:27	09/17/25 18:58	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		09/16/25 13:27	09/17/25 18:58	1
Fluoranthene	ND		5.2	0.42	ug/L		09/16/25 13:27	09/17/25 18:58	1
Fluorene	ND		5.2	0.38	ug/L		09/16/25 13:27	09/17/25 18:58	1

Client Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: MW-13

Lab Sample ID: 480-232604-5

Date Collected: 09/11/25 13:55

Matrix: Water

Date Received: 09/15/25 13:00

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		5.2	0.49	ug/L		09/16/25 13:27	09/17/25 18:58	1
Naphthalene	ND		5.2	0.79	ug/L		09/16/25 13:27	09/17/25 18:58	1
Phenanthrene	ND		5.2	0.46	ug/L		09/16/25 13:27	09/17/25 18:58	1
Pyrene	ND		5.2	0.35	ug/L		09/16/25 13:27	09/17/25 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	91		53 - 126				09/16/25 13:27	09/17/25 18:58	1
Nitrobenzene-d5 (Surr)	81		29 - 129				09/16/25 13:27	09/17/25 18:58	1
p-Terphenyl-d14 (Surr)	91		33 - 132				09/16/25 13:27	09/17/25 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0086	J F1	0.010	0.0041	mg/L			09/16/25 18:44	1

Client Sample ID: 091125-DUP

Lab Sample ID: 480-232604-6

Date Collected: 09/11/25 00:00

Matrix: Water

Date Received: 09/15/25 13:00

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			09/16/25 05:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 05:09	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 05:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 05:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					09/16/25 05:09	1
4-Bromofluorobenzene (Surr)	87		73 - 120					09/16/25 05:09	1
Dibromofluoromethane (Surr)	100		75 - 123					09/16/25 05:09	1
Toluene-d8 (Surr)	98		80 - 120					09/16/25 05:09	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		09/16/25 13:27	09/17/25 19:25	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/16/25 13:27	09/17/25 19:25	1
Anthracene	ND		5.0	0.28	ug/L		09/16/25 13:27	09/17/25 19:25	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 19:25	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 19:25	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 19:25	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/16/25 13:27	09/17/25 19:25	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/16/25 13:27	09/17/25 19:25	1
Chrysene	ND		5.0	0.33	ug/L		09/16/25 13:27	09/17/25 19:25	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/16/25 13:27	09/17/25 19:25	1
Fluoranthene	ND		5.0	0.40	ug/L		09/16/25 13:27	09/17/25 19:25	1
Fluorene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 19:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 19:25	1
Naphthalene	ND		5.0	0.76	ug/L		09/16/25 13:27	09/17/25 19:25	1
Phenanthrene	ND		5.0	0.44	ug/L		09/16/25 13:27	09/17/25 19:25	1
Pyrene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 19:25	1

Client Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: 091125-DUP

Lab Sample ID: 480-232604-6

Date Collected: 09/11/25 00:00

Matrix: Water

Date Received: 09/15/25 13:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	108		53 - 126	09/16/25 13:27	09/17/25 19:25	1
Nitrobenzene-d5 (Surr)	94		29 - 129	09/16/25 13:27	09/17/25 19:25	1
p-Terphenyl-d14 (Surr)	87		33 - 132	09/16/25 13:27	09/17/25 19:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.014		0.010	0.0041	mg/L			09/16/25 18:49	1

Client Sample ID: 091125-RB

Lab Sample ID: 480-232604-7

Date Collected: 09/11/25 16:15

Matrix: Water

Date Received: 09/15/25 13:00

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			09/16/25 05:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 05:32	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 05:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120		09/16/25 05:32	1
4-Bromofluorobenzene (Surr)	103		73 - 120		09/16/25 05:32	1
Dibromofluoromethane (Surr)	117		75 - 123		09/16/25 05:32	1
Toluene-d8 (Surr)	83		80 - 120		09/16/25 05:32	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		09/16/25 13:27	09/17/25 19:53	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/16/25 13:27	09/17/25 19:53	1
Anthracene	ND		5.0	0.28	ug/L		09/16/25 13:27	09/17/25 19:53	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 19:53	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 19:53	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 19:53	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/16/25 13:27	09/17/25 19:53	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/16/25 13:27	09/17/25 19:53	1
Chrysene	ND		5.0	0.33	ug/L		09/16/25 13:27	09/17/25 19:53	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/16/25 13:27	09/17/25 19:53	1
Fluoranthene	ND		5.0	0.40	ug/L		09/16/25 13:27	09/17/25 19:53	1
Fluorene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 19:53	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 19:53	1
Naphthalene	ND		5.0	0.76	ug/L		09/16/25 13:27	09/17/25 19:53	1
Phenanthrene	ND		5.0	0.44	ug/L		09/16/25 13:27	09/17/25 19:53	1
Pyrene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	105		53 - 126	09/16/25 13:27	09/17/25 19:53	1
Nitrobenzene-d5 (Surr)	92		29 - 129	09/16/25 13:27	09/17/25 19:53	1
p-Terphenyl-d14 (Surr)	102		33 - 132	09/16/25 13:27	09/17/25 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			09/16/25 18:52	1

Client Sample Results

Client: GEI Consultants Inc
 Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-232604-8

Date Collected: 09/11/25 12:25

Matrix: Water

Date Received: 09/15/25 13:00

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			09/17/25 15:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/17/25 15:25	1
Toluene	ND		1.0	0.51	ug/L			09/17/25 15:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/17/25 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/17/25 15:25	1
4-Bromofluorobenzene (Surr)	98		73 - 120		09/17/25 15:25	1
Dibromofluoromethane (Surr)	104		75 - 123		09/17/25 15:25	1
Toluene-d8 (Surr)	100		80 - 120		09/17/25 15:25	1

Surrogate Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-232604-1	MW-6	102	110	98	110
480-232604-2	MW-7	107	97	103	92
480-232604-3	MW-8	104	102	105	96
480-232604-4	MW-12RR	106	90	105	99
480-232604-4 MS	MW-12RR	103	107	105	91
480-232604-4 MSD	MW-12RR	107	114	105	104
480-232604-5	MW-13	106	102	106	97
480-232604-6	091125-DUP	102	87	100	98
480-232604-7	091125-RB	119	103	117	83
480-232604-8	TRIP BLANK	98	98	104	100
LCS 480-756946/6	Lab Control Sample	99	101	99	104
LCS 480-757184/6	Lab Control Sample	100	91	103	96
MB 480-756946/8	Method Blank	106	103	105	86
MB 480-757184/8	Method Blank	102	93	99	98

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (53-126)	NBZ (29-129)	TPHd14 (33-132)
480-232604-1	MW-6	96	86	95
480-232604-2	MW-7	80	71	89
480-232604-3	MW-8	79	72	86
480-232604-4	MW-12RR	94	79	90
480-232604-4 MS	MW-12RR	88	86	87
480-232604-4 MSD	MW-12RR	99	93	88
480-232604-5	MW-13	91	81	91
480-232604-6	091125-DUP	108	94	87
480-232604-7	091125-RB	105	92	102
LCS 480-757065/2-A	Lab Control Sample	91	84	100
MB 480-757065/1-A	Method Blank	86	76	94

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

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

Lab Sample ID: MB 480-756946/8
Matrix: Water
Analysis Batch: 756946

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.0	0.41	ug/L			09/16/25 00:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/16/25 00:31	1
Toluene	ND		1.0	0.51	ug/L			09/16/25 00:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/16/25 00:31	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		09/16/25 00:31	1
4-Bromofluorobenzene (Surr)	103		73 - 120		09/16/25 00:31	1
Dibromofluoromethane (Surr)	105		75 - 123		09/16/25 00:31	1
Toluene-d8 (Surr)	86		80 - 120		09/16/25 00:31	1

Lab Sample ID: LCS 480-756946/6
Matrix: Water
Analysis Batch: 756946

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Toluene	25.0	28.2		ug/L		113	80 - 122
Xylenes, Total	50.0	49.9		ug/L		100	76 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 480-232604-4 MS
Matrix: Water
Analysis Batch: 756946

Client Sample ID: MW-12RR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	ND		25.0	28.8		ug/L		115	77 - 123
Toluene	ND		25.0	26.1		ug/L		104	80 - 122
Xylenes, Total	ND		50.0	57.5		ug/L		115	76 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123
Toluene-d8 (Surr)	91		80 - 120

QC Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

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

Lab Sample ID: 480-232604-4 MSD
Matrix: Water
Analysis Batch: 756946

Client Sample ID: MW-12RR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		25.0	29.4		ug/L		118	71 - 124	1	13
Ethylbenzene	ND		25.0	29.5		ug/L		118	77 - 123	3	15
Toluene	ND		25.0	30.0		ug/L		120	80 - 122	14	15
Xylenes, Total	ND		50.0	58.0		ug/L		116	76 - 122	1	16

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	114		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: MB 480-757184/8
Matrix: Water
Analysis Batch: 757184

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			09/17/25 14:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/17/25 14:51	1
Toluene	ND		1.0	0.51	ug/L			09/17/25 14:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/17/25 14:51	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/17/25 14:51	1
4-Bromofluorobenzene (Surr)	93		73 - 120		09/17/25 14:51	1
Dibromofluoromethane (Surr)	99		75 - 123		09/17/25 14:51	1
Toluene-d8 (Surr)	98		80 - 120		09/17/25 14:51	1

Lab Sample ID: LCS 480-757184/6
Matrix: Water
Analysis Batch: 757184

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	24.8		ug/L		99	71 - 124
Ethylbenzene	25.0	24.1		ug/L		97	77 - 123
Toluene	25.0	24.1		ug/L		96	80 - 122
Xylenes, Total	50.0	49.1		ug/L		98	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	96		80 - 120

QC Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

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

Lab Sample ID: MB 480-757065/1-A
Matrix: Water
Analysis Batch: 757157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757065

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		5.0	0.41	ug/L		09/16/25 13:27	09/17/25 11:35	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/16/25 13:27	09/17/25 11:35	1
Anthracene	ND		5.0	0.28	ug/L		09/16/25 13:27	09/17/25 11:35	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 11:35	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 11:35	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 11:35	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/16/25 13:27	09/17/25 11:35	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/16/25 13:27	09/17/25 11:35	1
Chrysene	ND		5.0	0.33	ug/L		09/16/25 13:27	09/17/25 11:35	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/16/25 13:27	09/17/25 11:35	1
Fluoranthene	ND		5.0	0.40	ug/L		09/16/25 13:27	09/17/25 11:35	1
Fluorene	ND		5.0	0.36	ug/L		09/16/25 13:27	09/17/25 11:35	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/16/25 13:27	09/17/25 11:35	1
Naphthalene	ND		5.0	0.76	ug/L		09/16/25 13:27	09/17/25 11:35	1
Phenanthrene	ND		5.0	0.44	ug/L		09/16/25 13:27	09/17/25 11:35	1
Pyrene	ND		5.0	0.34	ug/L		09/16/25 13:27	09/17/25 11:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	86		53 - 126	09/16/25 13:27	09/17/25 11:35	1
Nitrobenzene-d5 (Surr)	76		29 - 129	09/16/25 13:27	09/17/25 11:35	1
p-Terphenyl-d14 (Surr)	94		33 - 132	09/16/25 13:27	09/17/25 11:35	1

Lab Sample ID: LCS 480-757065/2-A
Matrix: Water
Analysis Batch: 757157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757065

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Acenaphthene	32.0	28.1		ug/L		88	60 - 120
Acenaphthylene	32.0	28.2		ug/L		88	63 - 120
Anthracene	32.0	30.5		ug/L		95	67 - 120
Benzo[a]anthracene	32.0	32.0		ug/L		100	70 - 121
Benzo[a]pyrene	32.0	32.1		ug/L		100	60 - 123
Benzo[b]fluoranthene	32.0	32.7		ug/L		102	66 - 126
Benzo[g,h,i]perylene	32.0	31.8		ug/L		99	66 - 150
Benzo[k]fluoranthene	32.0	31.3		ug/L		98	65 - 124
Chrysene	32.0	32.8		ug/L		102	69 - 120
Dibenz(a,h)anthracene	32.0	32.6		ug/L		102	65 - 135
Fluoranthene	32.0	33.6		ug/L		105	69 - 126
Fluorene	32.0	30.1		ug/L		94	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	31.5		ug/L		98	69 - 146
Naphthalene	32.0	23.3		ug/L		73	57 - 120
Phenanthrene	32.0	29.7		ug/L		93	68 - 120
Pyrene	32.0	32.1		ug/L		100	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	91		53 - 126
Nitrobenzene-d5 (Surr)	84		29 - 129
p-Terphenyl-d14 (Surr)	100		33 - 132

QC Sample Results

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

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

Lab Sample ID: MB 480-757109/21
Matrix: Water
Analysis Batch: 757109

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			09/16/25 17:29	1

Lab Sample ID: MB 480-757109/47
Matrix: Water
Analysis Batch: 757109

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			09/16/25 18:39	1

Lab Sample ID: HLCS 480-757109/22
Matrix: Water
Analysis Batch: 757109

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	0.387		mg/L		97	90 - 110

Lab Sample ID: LCS 480-757109/23
Matrix: Water
Analysis Batch: 757109

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	0.254		mg/L		102	90 - 110

Lab Sample ID: LCS 480-757109/48
Matrix: Water
Analysis Batch: 757109

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	0.229		mg/L		92	90 - 110

Lab Sample ID: LLCS 480-757109/24
Matrix: Water
Analysis Batch: 757109

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0123		mg/L		123	50 - 150

Lab Sample ID: 480-232604-1 MS
Matrix: Water
Analysis Batch: 757109

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.019	F1	0.100	0.0858	F1	mg/L		67	90 - 110

Lab Sample ID: 480-232604-4 MS
Matrix: Water
Analysis Batch: 757109

Client Sample ID: MW-12RR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.014	F1	0.100	0.0895	F1	mg/L		75	90 - 110

QC Sample Results

Client: GEI Consultants Inc
 Project/Site: NFG Hornell

Job ID: 480-232604-1

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

Lab Sample ID: 480-232604-4 MSD
Matrix: Water
Analysis Batch: 757109

Client Sample ID: MW-12RR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.014	F1	0.100	0.0905	F1	mg/L		76	90 - 110	1	15

Lab Sample ID: 480-232604-5 MS
Matrix: Water
Analysis Batch: 757109

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0086	J F1	0.100	0.0799	F1	mg/L		71	90 - 110

Definitions/Glossary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

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
F1	MS and/or MSD recovery exceeds control limits.
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

QC Association Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

GC/MS VOA

Analysis Batch: 756946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-232604-1	MW-6	Total/NA	Water	8260C	
480-232604-2	MW-7	Total/NA	Water	8260C	
480-232604-3	MW-8	Total/NA	Water	8260C	
480-232604-4	MW-12RR	Total/NA	Water	8260C	
480-232604-5	MW-13	Total/NA	Water	8260C	
480-232604-6	091125-DUP	Total/NA	Water	8260C	
480-232604-7	091125-RB	Total/NA	Water	8260C	
MB 480-756946/8	Method Blank	Total/NA	Water	8260C	
LCS 480-756946/6	Lab Control Sample	Total/NA	Water	8260C	
480-232604-4 MS	MW-12RR	Total/NA	Water	8260C	
480-232604-4 MSD	MW-12RR	Total/NA	Water	8260C	

Analysis Batch: 757184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-232604-8	TRIP BLANK	Total/NA	Water	8260C	
MB 480-757184/8	Method Blank	Total/NA	Water	8260C	
LCS 480-757184/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 757065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-232604-1	MW-6	Total/NA	Water	3510C	
480-232604-2	MW-7	Total/NA	Water	3510C	
480-232604-3	MW-8	Total/NA	Water	3510C	
480-232604-4	MW-12RR	Total/NA	Water	3510C	
480-232604-5	MW-13	Total/NA	Water	3510C	
480-232604-6	091125-DUP	Total/NA	Water	3510C	
480-232604-7	091125-RB	Total/NA	Water	3510C	
MB 480-757065/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-757065/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-232604-4 MS	MW-12RR	Total/NA	Water	3510C	
480-232604-4 MSD	MW-12RR	Total/NA	Water	3510C	

Analysis Batch: 757157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-232604-1	MW-6	Total/NA	Water	8270D	757065
480-232604-2	MW-7	Total/NA	Water	8270D	757065
480-232604-3	MW-8	Total/NA	Water	8270D	757065
480-232604-4	MW-12RR	Total/NA	Water	8270D	757065
480-232604-5	MW-13	Total/NA	Water	8270D	757065
480-232604-6	091125-DUP	Total/NA	Water	8270D	757065
480-232604-7	091125-RB	Total/NA	Water	8270D	757065
MB 480-757065/1-A	Method Blank	Total/NA	Water	8270D	757065
LCS 480-757065/2-A	Lab Control Sample	Total/NA	Water	8270D	757065
480-232604-4 MS	MW-12RR	Total/NA	Water	8270D	757065
480-232604-4 MSD	MW-12RR	Total/NA	Water	8270D	757065

QC Association Summary

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

General Chemistry

Analysis Batch: 757109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-232604-1	MW-6	Total/NA	Water	9012B	
480-232604-2	MW-7	Total/NA	Water	9012B	
480-232604-3	MW-8	Total/NA	Water	9012B	
480-232604-4	MW-12RR	Total/NA	Water	9012B	
480-232604-5	MW-13	Total/NA	Water	9012B	
480-232604-6	091125-DUP	Total/NA	Water	9012B	
480-232604-7	091125-RB	Total/NA	Water	9012B	
MB 480-757109/21	Method Blank	Total/NA	Water	9012B	
MB 480-757109/47	Method Blank	Total/NA	Water	9012B	
HLCS 480-757109/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-757109/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-757109/48	Lab Control Sample	Total/NA	Water	9012B	
LLCS 480-757109/24	Lab Control Sample	Total/NA	Water	9012B	
480-232604-1 MS	MW-6	Total/NA	Water	9012B	
480-232604-4 MS	MW-12RR	Total/NA	Water	9012B	
480-232604-4 MSD	MW-12RR	Total/NA	Water	9012B	
480-232604-5 MS	MW-13	Total/NA	Water	9012B	

Lab Chronicle

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: MW-6

Lab Sample ID: 480-232604-1

Date Collected: 09/11/25 12:55

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	756946	ATG	EET BUF	09/16/25 03:13
Total/NA	Prep	3510C			757065	LSC	EET BUF	09/16/25 13:27
Total/NA	Analysis	8270D		1	757157	JMM	EET BUF	09/17/25 17:35
Total/NA	Analysis	9012B		1	757109	GW	EET BUF	09/16/25 17:40

Client Sample ID: MW-7

Lab Sample ID: 480-232604-2

Date Collected: 09/11/25 14:30

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	756946	ATG	EET BUF	09/16/25 03:36
Total/NA	Prep	3510C			757065	LSC	EET BUF	09/16/25 13:27
Total/NA	Analysis	8270D		1	757157	JMM	EET BUF	09/17/25 18:02
Total/NA	Analysis	9012B		1	757109	GW	EET BUF	09/16/25 17:48

Client Sample ID: MW-8

Lab Sample ID: 480-232604-3

Date Collected: 09/11/25 12:25

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	756946	ATG	EET BUF	09/16/25 03:59
Total/NA	Prep	3510C			757065	LSC	EET BUF	09/16/25 13:27
Total/NA	Analysis	8270D		1	757157	JMM	EET BUF	09/17/25 18:30
Total/NA	Analysis	9012B		1	757109	GW	EET BUF	09/16/25 18:25

Client Sample ID: MW-12RR

Lab Sample ID: 480-232604-4

Date Collected: 09/11/25 15:35

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	756946	ATG	EET BUF	09/16/25 04:23
Total/NA	Prep	3510C			757065	LSC	EET BUF	09/16/25 13:27
Total/NA	Analysis	8270D		1	757157	JMM	EET BUF	09/17/25 17:07
Total/NA	Analysis	9012B		1	757109	GW	EET BUF	09/16/25 18:01

Client Sample ID: MW-13

Lab Sample ID: 480-232604-5

Date Collected: 09/11/25 13:55

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	756946	ATG	EET BUF	09/16/25 04:46
Total/NA	Prep	3510C			757065	LSC	EET BUF	09/16/25 13:27
Total/NA	Analysis	8270D		1	757157	JMM	EET BUF	09/17/25 18:58
Total/NA	Analysis	9012B		1	757109	GW	EET BUF	09/16/25 18:44

Lab Chronicle

Client: GEI Consultants Inc
Project/Site: NFG Hornell

Job ID: 480-232604-1

Client Sample ID: 091125-DUP

Lab Sample ID: 480-232604-6

Date Collected: 09/11/25 00:00

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	756946	ATG	EET BUF	09/16/25 05:09
Total/NA	Prep	3510C			757065	LSC	EET BUF	09/16/25 13:27
Total/NA	Analysis	8270D		1	757157	JMM	EET BUF	09/17/25 19:25
Total/NA	Analysis	9012B		1	757109	GW	EET BUF	09/16/25 18:49

Client Sample ID: 091125-RB

Lab Sample ID: 480-232604-7

Date Collected: 09/11/25 16:15

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	756946	ATG	EET BUF	09/16/25 05:32
Total/NA	Prep	3510C			757065	LSC	EET BUF	09/16/25 13:27
Total/NA	Analysis	8270D		1	757157	JMM	EET BUF	09/17/25 19:53
Total/NA	Analysis	9012B		1	757109	GW	EET BUF	09/16/25 18:52

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-232604-8

Date Collected: 09/11/25 12:25

Matrix: Water

Date Received: 09/15/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	757184	ATG	EET BUF	09/17/25 15:25

Laboratory References:

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

Client Information		Lab PM Schove, John R		Carrier Tracking No(s) 480-207994-41065.1	
Client Contact Ms. Emily Dallas		E-Mail John.Schove@eurofins.com		Page Page 1 of 2	
Company GEI Consultants Inc		PWSID:		Job #:	
Address: 950 Danby Road Suite 201-F		Due Date Requested:		Preservation Codes: B - NaOH N - None D - HNO3 A - HCL S - H2SO4	
City: Ithaca		TAT Requested (days):		Other:	
State, Zip: NY, 14850		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Phone: 607-216-8966(Tel)		PO # 1801687.1.8			
Email: edallas@geiconsultants.com		WVO #			
Project #: 48027937		Project #			
Site: Hornell, NY - MGP Site - Quarterly		SSOW#			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=Air, DW=drinking water)	Analysis Requested												Special Instructions/Note:								
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B - NP - Cyanide	8270D - PAH	6010C - T. Fe/Mn	6010C - D. Fe/Mn	RSK_175 - Methane	8260C - BTEX	SMS310D - TOC	SM5310 - DOC	350.1 - Ammonia	353.2, 353.2, Nitrite, O516, Nitrate, Calc		2320B - Alkalinity	8260C - VOCs - BTEX	8270D - PAH Semivolatiles					
MM-6	09/11/25	1255	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Leave out dash from end #
MM-7		1430		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ignore extra 350.1 bottle
MM-8		1225		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MM-12RR		1535		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MM-12RR - MS		1540		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MM-12RR - MSD		154C		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
MM-13		135C		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DUP 091125 - DUP		0000		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
091125 - DUP		1616		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Possible Hazard Identification		Sample Disposal (A fee may be assessed if)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By
<input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify)	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological
<input type="checkbox"/> Empty Kit Relinquished by:	<input type="checkbox"/> Poison B	Special Instructions/QC Requirements:	
Relinquished by: <i>Ed Dallas</i>	<input type="checkbox"/> Relinquished by:	480-232604 Chain of Custody	
Relinquished by: <i>Ed Dallas</i>	Date: 09/11/25 1020	Method of Shipment:	
Relinquished by: <i>Ed Dallas</i>	Date: 09/11/25 1020	Received by: <i>gym</i>	
Relinquished by: <i>Ed Dallas</i>	Date: 09/11/25 1020	Received by: <i>gym</i>	
Relinquished by: <i>Ed Dallas</i>	Date: 09/11/25 1020	Received by: <i>gym</i>	
Custody Seals Intact	Custody Seal No.:	Cooler Temperature(s) and Other Remarks:	
<input type="checkbox"/> Yes <input type="checkbox"/> No		21.8 22.5 melted ice	

Chain of Custody Record

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

Client Information		SAMPLER: Schove, John R		COC No: 480-207994-41065.2	
Client Contact: Ms Emily Dallas		E-Mail: John.Schove@et.eurolins.com		Page: Page 2 of 2	
Company: GEI Consultants Inc		PWSID:		Job #:	
Address: 950 Danby Road Suite 201-F		Due Date Requested:		Carrier Tracking No(s):	
City: Ithaca		TAT Requested (days):		State of Origin:	
State/Zip: NY, 14850		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes: B - NaOH D - HNO3 S - H2SO4 N - None	
Phone: 607-216-8966(Tel)		PO #: 1801687.1.8		Other:	
Email: edallas@geiconsultants.com		WO #:		Total Number of Containers: <input checked="" type="checkbox"/>	
Project Name: Hornell, NY - MGP Site - Quarterly		Project #: 48027937		Special Instructions/Note:	
Site:		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Other Soil, BT* Tissue, Air, DWI-Drinking water)	Analysis Requested						Special Instructions/Note:	
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B_NP - Cyanide, Total	6010D - Metals - Iron & Manganese	6010D - Metals - Dissolved Iron & Manganese	SMS310D - Organic Carbon, Total (TOC)		SMS310D - Organic Carbon, Dissolved (DOC)
MW6	09/11/25	1255	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X	X	X	
MW7		1430		Water								
MW8		1225		Water								
MW12RR		1535		Water								
MW12RR - MS		1540		Water								
MW12RR - MSD		1545		Water								
MW13		1355		Water								
091125 - DUP		0000		Water								
091125 - BB		1615		Water								
				Water								

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/OC Requirements: Disregard this page if analytes are repeats from previous page			
Empty Kit Relinquished by:		Date:	
Relinquished by: <i>Abigail R. ...</i>		Date/Time: 11/11/25 1820	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	

Received by: <i>YMM</i>	Date/Time: 9-15-25	Company: TAB
Received by:	Date/Time:	Company:
Received by:	Date/Time:	Company:
Cooler Temperature(s) °C and Other Remarks:		

Login Sample Receipt Checklist

Client: GEI Consultants Inc

Job Number: 480-232604-1

Login Number: 232604

List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

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	MELTED ICE
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	21.8,22.5 MELTED ICE IR# SC
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)..	False	FEDEX DELAY
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
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	GEI
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Groundwater Monitoring Results
September 2025 Event
NYSDEC Site # 851032
October 28, 2025

Appendix B Data Usability Summary Report

Site: Hornell, NY Groundwater Sampling
Laboratory: Eurofins, Amherst, NY
Report Number: 480-232604-1
Reviewer: Darionna Malone/GEI Consultants
Date: September 17, 2025

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	Level 2 Review
MW-6	480-232604-1	BTEX, PAH, Cyanide
MW-7	480-232604-2	BTEX, PAH, Cyanide
MW-8	480-232604-3	BTEX, PAH, Cyanide
MW-12RR	480-232604-4	BTEX, PAH, Cyanide
MW-13	480-232604-5	BTEX, PAH, Cyanide
091125-DUP	480-232604-6	BTEX, PAH, Cyanide
091125-RB	480-232604-7	BTEX, PAH, Cyanide
TRIP BLANK	480-232604-8	BTEX

Associated QC Samples:

Rinse/Trip Blank: 091125-RB, TRIP BLANK

Field Duplicate Pair: 091125-DUP/ MW-12RR

The above-listed aqueous samples were collected on September 11, 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

Site: Hornell, NY Groundwater Sampling
Report Number 480-232604-1
Date: September 17, 2025

All results appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. Results were qualified as estimated due to uncertainty for levels below the reporting limit, sample preservation temperature exceedance, and/or MS/MD recovery exceedances. These results were considered valid; even though they 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

Cooler temperatures were received at 21.8 and 22.5 degrees Celsius. The detect and non-detected results are estimated (J/UJ) in all samples for VOCs, SVOCs, and total cyanide.

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 rinse blank and trip blank samples.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample MW-12RR for BTEX, PAH, and cyanide and samples MW-12RR, MW-6, and MW-13 for cyanide. All criteria were met except where noted below.

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MW-6					
Analyte	MS (%)	MSD (%)	RPD (%)	Control Limits	Validation Action/Bias
Total Cyanide					
Total Cyanide	67	-	-	90-110	Estimate (J) the positive result for total cyanide in samples MW-6, MW-7, MW-8, MW-12RR, MW-13, 091125-DUP; Low bias.
- Criteria met					

MW-12RR					
Analyte	MS (%)	MSD (%)	RPD (%)	Control Limits	Validation Action/Bias
Total Cyanide					
Total Cyanide	75	76	-	90-110	Estimate (J) the positive result for total cyanide in samples MW-6, MW-7, MW-8, MW-12RR, MW-13, 091125-DUP; Low bias.
- Criteria met					

MW-13					
Analyte	MS (%)	MSD (%)	RPD (%)	Control Limits	Validation Action/Bias
Total Cyanide					
Total Cyanide	71	-	-	90-110	Estimate (J) the positive result for total cyanide in samples MW-6, MW-7, MW-8, MW-12RR, MW-13, 091125-DUP; Low bias.
- Criteria met					

Laboratory Duplicate Results

Laboratory duplicate analysis was not performed with this sample set.

Field Duplicate Results

Samples MW-12RR and 091125-DUP were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, which were within the acceptance criteria.

Analyte	MW-12RR (ug/L)	091125-DUP (ug/L)	RPD (%)
Total Cyanide	0.014 J	0.014	0

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Analyte	MW-12RR (ug/L)	091125-DUP (ug/L)	RPD (%)
NC – Not calculable Criteria: When both results are $\geq 5x$ the RL, RPDs must be $< 50\%$. For results $< 5x$ the QL, professional judgment was used to estimate results if the difference between the original and field duplicate $> 4xRL$			

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.

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 Analytical Results
National Fuel Gas
Hornell, NY

				Pre-Remediation	Post-Remediation				
Sample Name Sample Date				MW6 8/18/2020	MW6 8/13/2024	MW6 11/25/2024	MW6 3/18/2025	MW6 6/3/2025	MW6 9/11/2025
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 UJ
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 UJ
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 UJ
o-Xylene		95-47-6	5	--	1 U	--	--	--	--
m/p-Xylene		179601-23-1	5	--	2 U	--	--	--	--
Total Xylene		1330-20-7	5	3 U	2 U	2 U	2 U	2 U	2 UJ
Total BTEX		NE	NE	ND	0.41	ND	ND	ND	ND
PAHs	ug/L								
Acenaphthene		83-32-9	20*	4.7	5.3	6.7	6.2	4.9 J	6.3 J
Acenaphthylene		208-96-8	NE	1.1	1.7 J	2.2 J	1.9 J	1.3 J	1.7 J
Anthracene		120-12-7	50*	0.13	5 U	5 U	5 U	5.4 U	5.4 UJ
Benzo(a)anthracene		56-55-3	0.002*	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Benzo(b)fluoranthene		205-99-2	0.002*	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Benzo(k)fluoranthene		207-08-9	0.002*	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Benzo(g,h,i)perylene		191-24-2	NE	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Benzo(a)pyrene		50-32-8	ND	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Chrysene		218-01-9	0.002*	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Dibenz(a,h)anthracene		53-70-3	NE	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Fluoranthene		206-44-0	50*	0.18	5 U	5 U	5 U	5.4 U	5.4 UJ
Fluorene		86-73-7	50*	3.1	5.4 J	7.1	6.4	5.4	5.9 J
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.02 U	5 U	5 U	5 U	5.4 U	5.4 UJ
Naphthalene		91-20-3	10*	0.15	5 U	5 U	5 U	5.4 U	5.4 UJ
Phenanthrene		85-01-8	50*	0.23	5 U	5 U	5 U	5.4 U	5.4 UJ
Pyrene		129-00-0	50*	0.085	5 U	5 U	5 U	5.4 U	5.4 UJ
Total PAHs		NE	NE	9.675	12.4	16	14.5	11.6	13.9 J
Cyanides	ug/L								
Total Cyanide		57-12-5	200	10 U	43	31	45 J	48 J	19 J
Dissolved Metals	ug/L								
Iron		7439-89-6	300	30.2 J	--	1500	--	--	--
Manganese		7439-96-5	300	725	--	520	--	--	--
Total Metals	ug/L								
Iron		7439-89-6	300	4900	--	2200	--	--	--
Manganese		7439-96-5	300	758	--	550	--	--	--
Other	ug/L								
Alkalinity		NE	NE	--	--	307000 J	--	--	--
Ammonia		7664-41-7	2000	--	--	820	--	--	--
Dissolved Organic Carbon		NE	NE	--	--	690 J	--	--	--
Methane		74-82-8	NE	37.8	--	61	--	--	--
Nitrate as Nitrogen		14797-55-8	10000	--	--	340 J	--	--	--
Nitrite as Nitrogen		14797-65-0	1000	50 U	--	50 R	--	--	--
Nitrate and Nitrite as Nitrogen		NE	10000	--	--	340 J	--	--	--
Total Nitrogen		7727-37-9	NE	280	--	--	--	--	--
Sulfate		14808-79-8	250000	24800	--	39700	--	--	--
Total Organic Carbon		NE	NE	--	--	740 J	--	--	--

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

				Pre-Remediation	Post-Remediation				
Sample Name Sample Date				MW7 8/18/2020	MW7 8/13/2024	MW7 11/25/2024	MW7 3/18/2025	MW7 6/3/2025	MW7 9/11/2025
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 UJ
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 UJ
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 UJ
o-Xylene		95-47-6	5	--	1 U	--	--	--	--
m/p-Xylene		179601-23-1	5	--	2 U	--	--	--	--
Total Xylene		1330-20-7	5	3 U	2 U	2 U	2 U	2 U	2 UJ
Total BTEX		NE	NE	ND	ND	ND	ND	ND	ND
PAHs	ug/L								
Acenaphthene		83-32-9	20*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Acenaphthylene		208-96-8	NE	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Anthracene		120-12-7	50*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Benzo(a)anthracene		56-55-3	0.002*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Benzo(b)fluoranthene		205-99-2	0.002*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Benzo(k)fluoranthene		207-08-9	0.002*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Benzo(g,h,i)perylene		191-24-2	NE	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Benzo(a)pyrene		50-32-8	ND	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Chrysene		218-01-9	0.002*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Dibenz(a,h)anthracene		53-70-3	NE	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Fluoranthene		206-44-0	50*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Fluorene		86-73-7	50*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Naphthalene		91-20-3	10*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Phenanthrene		85-01-8	50*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Pyrene		129-00-0	50*	0.02 U	5.2 U	5 U	5 U	5.2 U	5.2 UJ
Total PAHs		NE	NE	ND	ND	ND	ND	ND	ND
Cyanides	ug/L								
Total Cyanide		57-12-5	200	10 U	190	260	190 J	100	100 J
Dissolved Metals	ug/L								
Iron		7439-89-6	300	140	--	100 J	--	--	--
Manganese		7439-96-5	300	61.4	--	7.6	--	--	--
Total Metals	ug/L								
Iron		7439-89-6	300	1840	--	140 J	--	--	--
Manganese		7439-96-5	300	125	--	14	--	--	--
Other	ug/L								
Alkalinity		NE	NE	--	--	321000 J	--	--	--
Ammonia		7664-41-7	2000	--	--	860	--	--	--
Dissolved Organic Carbon		NE	NE	--	--	910 J	--	--	--
Methane		74-82-8	NE	1 U	--	4 U	--	--	--
Nitrate as Nitrogen		14797-55-8	10000	--	--	4000 J	--	--	--
Nitrite as Nitrogen		14797-65-0	1000	50 U	--	50 R	--	--	--
Nitrate and Nitrite as Nitrogen		NE	10000	--	--	4000 J	--	--	--
Total Nitrogen		7727-37-9	NE	6500	--	--	--	--	--
Sulfate		14808-79-8	250000	33600	--	29200	--	--	--
Total Organic Carbon		NE	NE	--	--	950 J	--	--	--

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

				Pre-Remediation	Post-Remediation				
Sample Name Sample Date				MW8 8/18/2020	MW8 8/13/2024	MW8 11/25/2024	MW8 3/18/2025	MW8 6/3/2025	MW8 9/11/2025
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 UJ
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 UJ
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 UJ
o-Xylene		95-47-6	5	--	1 U	--	--	--	--
m/p-Xylene		179601-23-1	5	--	2 U	--	--	--	--
Total Xylene		1330-20-7	5	3 U	2 U	2 U	2 U	2 U	2 UJ
Total BTEX		NE	NE	ND	ND	ND	ND	ND	ND
PAHs	ug/L								
Acenaphthene		83-32-9	20*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Acenaphthylene		208-96-8	NE	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Anthracene		120-12-7	50*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Benzo(a)anthracene		56-55-3	0.002*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Benzo(b)fluoranthene		205-99-2	0.002*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Benzo(k)fluoranthene		207-08-9	0.002*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Benzo(g,h,i)perylene		191-24-2	NE	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Benzo(a)pyrene		50-32-8	ND	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Chrysene		218-01-9	0.002*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Dibenz(a,h)anthracene		53-70-3	NE	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Fluoranthene		206-44-0	50*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Fluorene		86-73-7	50*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Naphthalene		91-20-3	10*	0.024	5.2 U	5 U	5 U	5 U	6.3 UJ
Phenanthrene		85-01-8	50*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Pyrene		129-00-0	50*	0.02 U	5.2 U	5 U	5 U	5 U	6.3 UJ
Total PAHs		NE	NE	0.024	ND	ND	ND	ND	ND
Cyanides	ug/L								
Total Cyanide		57-12-5	200	10 U	700	36	51 J	760 J	30 J
Dissolved Metals	ug/L								
Iron		7439-89-6	300	22.8 J	--	50 U	--	--	--
Manganese		7439-96-5	300	10 U	--	3 U	--	--	--
Total Metals	ug/L								
Iron		7439-89-6	300	876	--	50 U	--	--	--
Manganese		7439-96-5	300	56	--	3 U	--	--	--
Other	ug/L								
Alkalinity		NE	NE	--	--	261000 J	--	--	--
Ammonia		7664-41-7	2000	--	--	430	--	--	--
Dissolved Organic Carbon		NE	NE	--	--	1000 U	--	--	--
Methane		74-82-8	NE	1 U	--	4 U	--	--	--
Nitrate as Nitrogen		14797-55-8	10000	--	--	4900 J	--	--	--
Nitrite as Nitrogen		14797-65-0	1000	50 U	--	50 R	--	--	--
Nitrate and Nitrite as Nitrogen		NE	10000	--	--	4900 J	--	--	--
Total Nitrogen		7727-37-9	NE	6500	--	--	--	--	--
Sulfate		14808-79-8	250000	38100	--	30000	--	--	--
Total Organic Carbon		NE	NE	--	--	1000 U	--	--	--

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

				Pre-Remediation	Post-Remediation				
Sample Name Sample Date				MW12 8/17/2020	MW12R ⁽¹⁾ 8/13/2024	MW12RR 11/25/2024	MW12RR 3/18/2025	MW12RR 6/3/2025	MW12RR 9/11/2025
Analyte	Units	CAS No.	NYS AWQS						
BTEX	ug/L								
Benzene		71-43-2	1	1 U	320	1 U	1 U	1 U	1 UJ
Toluene		108-88-3	5	1 U	120	1 U	1 U	1 U	1 UJ
Ethylbenzene		100-41-4	5	1 U	28	1 U	1 U	1 U	1 UJ
o-Xylene		95-47-6	5	--	63	--	--	--	--
m/p-Xylene		179601-23-1	5	--	99	--	--	--	--
Total Xylene		1330-20-7	5	3 U	160	2 U	2 U	2 U	2 UJ
Total BTEX		NE	NE	ND	630	ND	ND	ND	ND
PAHs	ug/L								
Acenaphthene		83-32-9	20*	0.02 U	11	10 U	25 U	5.2 U	5 UJ
Acenaphthylene		208-96-8	NE	0.09	5.4	10 U	25 U	5.2 U	5 UJ
Anthracene		120-12-7	50*	0.031	0.77 J	10 U	25 U	5.2 U	5 UJ
Benzo(a)anthracene		56-55-3	0.002*	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Benzo(b)fluoranthene		205-99-2	0.002*	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Benzo(k)fluoranthene		207-08-9	0.002*	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Benzo(g,h,i)perylene		191-24-2	NE	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Benzo(a)pyrene		50-32-8	ND	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Chrysene		218-01-9	0.002*	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Dibenz(a,h)anthracene		53-70-3	NE	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Fluoranthene		206-44-0	50*	0.02 U	0.5 J	10 U	25 U	5.2 U	5 UJ
Fluorene		86-73-7	50*	0.02 U	2.4 J	10 U	25 U	5.2 U	5 UJ
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.02 U	5 U	10 U	25 U	5.2 U	5 UJ
Naphthalene		91-20-3	10*	0.057	640	10 U	25 U	5.2 U	5 UJ
Phenanthrene		85-01-8	50*	0.02 U	2.8 J	10 U	25 U	5.2 U	5 UJ
Pyrene		129-00-0	50*	0.02 U	0.53 J	10 U	25 U	5.2 U	5 UJ
Total PAHs		NE	NE	0.178	663.4	ND	ND	ND	ND
Cyanides	ug/L								
Total Cyanide		57-12-5	200	10 U	120	17	28 J	57 J	14 J
Dissolved Metals	ug/L								
Iron		7439-89-6	300	53.3	--	50 U	--	--	--
Manganese		7439-96-5	300	1670	--	210	--	--	--
Total Metals	ug/L								
Iron		7439-89-6	300	268	--	50 U	--	--	--
Manganese		7439-96-5	300	1710	--	220	--	--	--
Other	ug/L								
Alkalinity		NE	NE	--	--	286000 J	--	--	--
Ammonia		7664-41-7	2000	--	--	430	--	--	--
Dissolved Organic Carbon		NE	NE	--	--	1000 U	--	--	--
Methane		74-82-8	NE	1 U	--	4 U	--	--	--
Nitrate as Nitrogen		14797-55-8	10000	--	--	2400 J	--	--	--
Nitrite as Nitrogen		14797-65-0	1000	50 UJ	--	50 R	--	--	--
Nitrate and Nitrite as Nitrogen		NE	10000	--	--	2400 J	--	--	--
Total Nitrogen		7727-37-9	NE	740	--	--	--	--	--
Sulfate		14808-79-8	250000	55400	--	27700	--	--	--
Total Organic Carbon		NE	NE	--	--	1000 U	--	--	--

(1) MW12R was inadvertently installed in the ISS footprint and was subsequently decommissioned and replaced with MW12RR, set outside of the ISS footprint

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

				Pre-Remediation	Post-Remediation			
Sample Name Sample Date				MW13 8/18/2020	MW13 11/25/2024	MW13 3/18/2025	MW13 6/3/2025	MW13 9/11/2025
Analyte	Units	CAS No.	NYS AWQS					
BTEX	ug/L							
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 UJ
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 UJ
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 UJ
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	2 UJ
Total BTEX		NE	NE	ND	ND	ND	ND	ND
PAHs	ug/L							
Acenaphthene		83-32-9	20*	0.02 U	5 U	5 U	5 U	5.2 UJ
Acenaphthylene		208-96-8	NE	0.02 U	5 U	5 U	5 U	5.2 UJ
Anthracene		120-12-7	50*	0.02 U	5 U	5 U	5 U	5.2 UJ
Benzo(a)anthracene		56-55-3	0.002*	0.02 U	5 U	5 U	5 U	5.2 UJ
Benzo(b)fluoranthene		205-99-2	0.002*	0.02 U	5 U	5 U	5 U	5.2 UJ
Benzo(k)fluoranthene		207-08-9	0.002*	0.02 U	5 U	5 U	5 U	5.2 UJ
Benzo(g,h,i)perylene		191-24-2	NE	0.02 U	5 U	5 U	5 U	5.2 UJ
Benzo(a)pyrene		50-32-8	ND	0.02 U	5 U	5 U	5 U	5.2 UJ
Chrysene		218-01-9	0.002*	0.02 U	5 U	5 U	5 U	5.2 UJ
Dibenz(a,h)anthracene		53-70-3	NE	0.02 U	5 U	5 U	5 U	5.2 UJ
Fluoranthene		206-44-0	50*	0.02 U	5 U	5 U	5 U	5.2 UJ
Fluorene		86-73-7	50*	0.02 U	5 U	5 U	5 U	5.2 UJ
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.02 U	5 U	5 U	5 U	5.2 UJ
Naphthalene		91-20-3	10*	0.02 U	5 U	5 U	5 U	5.2 UJ
Phenanthrene		85-01-8	50*	0.02 U	5 U	5 U	5 U	5.2 UJ
Pyrene		129-00-0	50*	0.02 U	5 U	5 U	5 U	5.2 UJ
Total PAHs		NE	NE	ND	ND	ND	ND	ND
Cyanides	ug/L							
Total Cyanide		57-12-5	200	10 U	7.7 J	42 J	83	8.6 J
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	--	--	--
Other	ug/L							
Alkalinity		NE	NE	--	256000 J	--	--	--
Ammonia		7664-41-7	2000	--	220 J	--	--	--
Dissolved Organic Carbon		NE	NE	--	1000 U	--	--	--
Methane		74-82-8	NE	1 U	4 U	--	--	--
Nitrate as Nitrogen		14797-55-8	10000	--	5800 J	--	--	--
Nitrite as Nitrogen		14797-65-0	1000	50 U	50 R	--	--	--
Nitrate and Nitrite as Nitrogen		NE	10000	--	5800 J	--	--	--
Total Nitrogen		7727-37-9	NE	3600	--	--	--	--
Sulfate		14808-79-8	250000	30500	26900	--	--	--
Total Organic Carbon		NE	NE	--	1000 U	--	--	--

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

Notes:

Analytes in blue are not detected in any sample

ng/L = nanogram per liter (ppt)

ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

PAHs = 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

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

Black text in Analyte field indicates constituent has been detected at least once in the dataset; blue text indicates no detects

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

R = The result is rejected

U = The result was not detected above the reporting limit

UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated