



Consulting
Engineers and
Scientists

January 28, 2025
Project 1801687

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

**RE: Groundwater Monitoring Results
Fourth Quarter 2024 Event
Hornell Former MGP Site
NYSDEC Site # 851032**

Dear Mr. King:

This report has been prepared by GEI Consultants, Inc., P.C. (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). This report presents the results of quarterly groundwater monitoring activities performed on November 25, 2024. In addition to the normal quarterly scope, this event included the expanded annual monitoring for prescribed natural attenuation parameters, as indicated in the ISMP.

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 stabilization of soil, a layer of clean fill, institutional controls, and monitored natural attenuation. An Environmental Easement (EE) is also a planned component for long-term site management, but the EE has not been finalized by the NYSDEC, which also precludes finalization of the Site Management Plan (SMP). As a result, the ISMP was requested by the NYSDEC, submitted in February 2024, and approved by the NYSDEC in a letter to NFG dated June 24, 2024. The ISMP includes implementation of the quarterly groundwater monitoring for two years, along with other site management components (primarily annual site inspections). This sampling event was the second of the quarterly groundwater sampling events under the ISMP.

Monitoring Well Repair and Re-Installation

MW13 Repair and Development

As discussed in the Groundwater Monitoring Results summary for the Third Quarter 2024, MW13 was obstructed during the August 2024 groundwater sampling event. On September 9, 2024, a licensed driller inspected the well and identified the object causing the obstruction as a crumpled piece of tubing that was stuck in the well a few feet below the top of casing. The obstruction was removed, and the well was redeveloped to remove silt that had accumulated in the sump at the bottom of the well.

MW12R Replacement

As discussed in the Groundwater Monitoring Results summary for the Third Quarter 2024, monitoring well MW12R had been unintentionally installed within the in-situ stabilization (ISS) treatment area in April 2021. On October 9, 2024, NYSDEC approved the plan to abandon MW12R and install a new replacement well (MW12RR) outside of the ISS treatment area.

Nothnagle (a licensed drilling subcontractor) abandoned MW12R and installed MW12RR on November 7-8, 2024. The drilling subcontractor notified UDig NY seven days prior to commencing intrusive activities. Prior to drilling the bore hole for the well, a test boring was advanced via direct-push to confirm that the location was not in the ISS treatment area. The borehole for MW12RR was drilled using hollow stem augers in a location within a few feet of the original MW12, north of the ISS treatment area and the abandoned steel sheet piles that surrounded the deep soil remediation area. MW12RR was installed with a similar construction and screen depth as MW12; with a 13-foot long 2-inch PVC riser and 10-foot long 0.020-slot PVC screen with a 1-foot sump. The well was finished with a flush-mount concrete pad and was developed following installation. A well construction log is included in Appendix A.

MW12R was decommissioned following the installation of MW12RR. The drilling subcontractor over-drilled MW12R with hollow-stem augers to a depth of 25 feet bgs to remove the PVC and sand pack. The borehole was filled with cement grout up to 8 feet bgs to be consistent with the surrounding ISS treatment area. The remainder of the borehole was filled with bentonite grout and the ground surface was restored with topsoil and grass seed.

Consistent with the Excavation Work Plan in the Interim Site Management Plan, air monitoring was conducted downwind of the work area, between the drilling location and the hotel. Dust was monitored automatically at 1-minute intervals using the onboard data logging device, which was downloaded at the end of the event. Air monitoring data is included in Appendix B. No visible dust was observed during drilling and no dust action level exceedances were detected by the monitor.

Waste generated during the monitoring well decommissioning and installation, including soil cuttings, over-drilled well construction materials, and development water was containerized in drums in a secure location on Site. Waste transportation and disposal was subsequently arranged by National Fuel.

A NY-registered professional land surveyor provided location and elevation data for the new monitoring well (MW12RR). Tables and figures included with this summary have all been updated with the surveyed coordinates and elevation.

Quarterly Field Monitoring Activities and Results

The locations of the monitoring wells are provided on Figure 1. A summary of the Fourth Quarter 2024 monitoring activities and results is provided below.

Monitoring Well Elevation Gauging

As required by the ISMP, the seven existing monitoring wells were gauged to obtain data to assess the direction of groundwater flow. Table 1 summarizes the monitoring well designations, surveyed well elevation data, depth-to-water measurements, and groundwater elevations reflecting measurement data from November 25, 2024. Based on that data, Figure 1 depicts the inferred shallow groundwater contours. As shown, groundwater flow is inferred to be generally toward the southeast and consistent with prior site data, although a relatively higher water level was noted in MW15, suggesting a localized high groundwater elevation in the area that was not observed during prior gauging. The highest groundwater elevation measurement was in the western area of the site at

MW13 (1141.35 feet NAVD88). The lowest groundwater elevation measurement was in the eastern area of the site at MW4 (1140.65 feet NAVD88). The overall change in the elevation of the water table across the site was 0.70 feet, which represents a hydraulic gradient of approximately 0.002 ft/ft. The estimated direction of groundwater flow for this sampling event is consistent with the previous groundwater monitoring events performed prior to completion of the remedy, which have indicated groundwater flow toward the east/southeast.

NAPL Monitoring

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

Groundwater Sampling

Groundwater sampling was performed on November 25, 2024. This sampling event included the quarterly gauging and sampling parameters, and the annual expanded analyte list to include monitored natural attenuation (MNA) parameters described in the ISMP. The MNA parameters are analyzed once per year to assess the continued natural attenuation of MGP-related impacts in groundwater. Samples were collected from monitoring wells MW6, MW7, MW8, MW12RR, and MW13 and analyzed for the following parameters:

| Group | Analyte | Method |
|-----------------------|---|---------------|
| Quarterly program | Benzene, toluene, ethylbenzene, and xylenes | 8260C |
| | Polycyclic aromatic hydrocarbons (PAHs) | 8270D |
| | Total Cyanide | 9012B |
| Annual MNA Parameters | Iron and manganese (total and dissolved) | 6010C |
| | Organic carbon (total and dissolved) | SM 5310D/C |
| | Nitrite and nitrate | 353.2 |
| | Sulfate | D516 |
| | Ammonia | 350.1 |
| | Methane | RSK-175 |
| | Alkalinity | 2320B |

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 Buffalo, New York for analysis. Eurofins is certified to perform analyses under the NYSDOH Environmental Laboratory Approval Program (ELAP). The methods used for the analyses and the quality control measures performed were consistent with the specifications provided in the NYSDEC Analytical Services Protocol (ASP). Data exceeding applicable standards are summarized on Figure 2 and the entire dataset is tabulated in Table 2. The laboratory Form 1 Report sheets for the analyses and the chain-of-custody records are included in Appendix C.

Analytical Results

All analytical data were validated per appropriate EPA guidance, consistent with New York State Analytical Services Protocol (NYSASP) Category B guidance. The Data Usability Summary Report (DUSR) is presented in Appendix D. Data and qualifiers in Table 2 and Figure 2 reflect the findings of the DUSR. All results were determined to be usable and valid with the exceptions of nitrate and nitrite where the analyses were outside of hold times due to laboratory error. Nitrate results were qualified as estimated values and nitrite results were rejected.

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. On Table 2, concentrations greater than method detection limits are shown with a bold font and detected concentrations greater than applicable NYSDEC Groundwater Standards or Guidance Values are shaded gray.

BTEX

The results of the Fourth Quarter 2024 VOC analyses are summarized in Table 2 and on Figure 2. As shown in the attached summaries, no VOCs were detected above the laboratory reporting limit during this event.

PAHs

The Fourth Quarter 2024 analytical results for PAHs are summarized in Table 2 and on Figure 2. No PAHs were detected above NYSDEC Standards and/or Guidance Values during this event.

Total Cyanide

Total cyanide analytical results for the Fourth Quarter 2024 sampling event are included in Table 2 and on Figure 2. Cyanide was detected marginally above the NYSDEC Ambient Water Quality Standard (AWQS) of 0.2 mg/ in MW7, with a concentration of 0.26 mg/l.

MNA Evaluation Parameters

Analytical results for MNA parameters for the Fourth Quarter 2024 sampling event are included in Table 2 and on Figure 2. These parameters included total and dissolved iron, total and dissolved manganese, methane, nitrite, nitrate, ammonia, sulfate, dissolved organic carbon, total organic carbon, and total alkalinity.

Concentrations of dissolved iron increased in downgradient well MW6 in 2024 relative to August 2020, while total iron and manganese also decreased in downgradient and source area wells relative to 2020. This increase in soluble (i.e., dissolved) iron, coupled with decreases in total iron and manganese and the continued presence of sulfate and methane in groundwater, suggest that conditions favorable for anaerobic degradation are present within the source area. Microbial degradation appears to be primarily occurring through the reduction of insoluble iron (ferric iron; Fe^{3+}) to soluble (ferrous iron; Fe^{2+}) iron.¹ Natural attenuation conditions will continue to be monitored going forward.

¹Anaerobic microbes use electron acceptors in preferential order, as follows: nitrate, manganese, ferric iron oxyhydroxides, sulfate, and carbon dioxide. In other words, nitrification occurs first (reducing ammonia to nitrites to nitrates), followed by reduction of insoluble manganese oxide (MnO_2) to soluble (i.e., dissolved) manganese ions (Mn^{2+}), then reduction of insoluble ferric iron (Fe^{3+}) to soluble ferrous iron (Fe^{2+}), then reduction of sulfates, then methanogenesis (production of methane). [https://clu-in.org/techfocus/default.focus/sec/bioremediation/cat/anaerobic_bioremediation_\(direct\)](https://clu-in.org/techfocus/default.focus/sec/bioremediation/cat/anaerobic_bioremediation_(direct))

As discussed above, analytical results from MW12R during the August 2024 event indicate that the well had been inadvertently installed within the ISS remediation area. The groundwater pH at MW12R was also slightly elevated (8.79) relative to original MW12 and other wells outside the ISS area, likely due to the alkaline conditions in the ISS area. The groundwater pH at MW12RR was closer to neutral (7.27) and similar to the original MW12 (which had a pH of 6.48 during the pre-remediation groundwater sampling event in August 2020), and consistent with other wells measured during this event (6.72 to 7.97). This suggests that the conditions in MW12RR are more similar to those of MW12, as was intended for the replacement well.

Implementation of the Post-Remedial Monitoring Work Plan

As noted above, the groundwater monitoring program will continue on a quarterly basis for two years per the ISMP. The next groundwater monitoring event is anticipated to be conducted in February or March 2025 depending on field and weather conditions. NYSDEC will be notified at least 7 days prior to the sampling event.

If you have any questions or comments regarding the information presented in this report, please contact Jeff Holden at 607.216.8956.

Sincerely,



Jeffrey Holden, P.E.
Senior Engineer
Project Manager



Emily Dallas
Project Scientist

Attachments: Table 1 – Groundwater Elevation Summary and NAPL Gauging Results
Table 2 – Groundwater Analytical Results
Figure 1 – Well Location and Groundwater Contour Map
Figure 2 – Summary of NYS GW Exceedances 4th Quarter 2024
Appendix A – Well Construction Log (MW12RR)
Appendix B – CAMP Data for MW12RR Installation
Appendix C – Chain-of-Custody Record and Form 1 Report Sheets
Appendix D – Data Usability Summary Report

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

Tables

**Table 1. Groundwater Elevation Summary and NAPL Gauging Results
 4th Quarter 2024 Groundwater Monitoring Event
 Hornell Former MGP Site**

| Well ID | PVC Riser Reference Elevation (Feet NAVD88) | Depth to Water 11/25/2024 (Feet below top of inner casing) | Groundwater Elevation November 25, 2024 (Feet NAVD88) | NAPL Gauging Results |
|----------------|--|---|--|-----------------------------|
| MW4 | 1156.23 | 15.58 | 1140.65 | Not Present |
| MW6 | 1157.86 | 16.90 | 1140.96 | Not Present |
| MW7 | 1155.74 | 14.82 | 1140.92 | Not Present |
| MW8 | 1158.26 | 17.20 | 1141.06 | Not Present |
| MW12RR | 1156.99 | 16.03 | 1140.96 | Not Present |
| MW13 | 1156.92 | 15.57 | 1141.35 | Not Present |
| MW15 | 1156.10 | 14.84 | 1141.26 | Not Present |

**Table 2. Hornell Former MGP Site
Fourth Quarter 2024 Groundwater Analysis Results Summary Table
National Fuel Gas
Hornell, NY**

| Location Name Sample Name Sample Date Parent Sample | | | | MW-6 MW6 11/25/2024 | MW-7 MW7 11/25/2024 | MW-7 DUP112524 MW7 11/25/2024 | MW-8 MW8 11/25/2024 | MW-12 MW12RR 11/25/2024 | MW-13 MW13 11/25/2024 |
|--|-------|------------|-------------|---------------------------|---------------------------|--|---------------------------|-------------------------------|-----------------------------|
| Analyte | Units | CAS No. | NYS AWQS | | | | | | |
| BTEX | ug/L | | | | | | | | |
| Benzene | | 71-43-2 | 1 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Toluene | | 108-88-3 | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Ethylbenzene | | 100-41-4 | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Total Xylene | | 1330-20-7 | 5 | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Total BTEX (ND=0) | | | NE | ND | ND | ND | ND | ND | ND |
| PAH17 | ug/L | | | | | | | | |
| Acenaphthene | | 83-32-9 | 20* | 6.7 | 5 U | 5 U | 5 U | 10 U | 5 U |
| Acenaphthylene | | 208-96-8 | NE | 2.2 J | 5 U | 5 U | 5 U | 10 U | 5 U |
| Anthracene | | 120-12-7 | 50* | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Benzo(a)anthracene | | 56-55-3 | 0.002 | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Benzo(b)fluoranthene | | 205-99-2 | 0.002 | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Benzo(k)fluoranthene | | 207-08-9 | 0.002 | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Benzo(g,h,i)perylene | | 191-24-2 | NE | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Benzo(a)pyrene | | 50-32-8 | ND | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Chrysene | | 218-01-9 | 0.002* | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Dibenz(a,h)anthracene | | 53-70-3 | NE | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Fluoranthene | | 206-44-0 | 50* | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Fluorene | | 86-73-7 | 50* | 7.1 | 5 U | 5 U | 5 U | 10 U | 5 U |
| Indeno(1,2,3-cd)pyrene | | 193-39-5 | 0.002* | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Naphthalene | | 91-20-3 | 10* | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Phenanthrene | | 85-01-8 | 50* | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Pyrene | | 129-00-0 | 50* | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U |
| Total PAH (17) (ND=0) | | | NE | 16 | ND | ND | ND | ND | ND |
| Dissolved Metals | ug/L | | | | | | | | |
| Iron | | 7439-89-6 | 300 | 1500 | 100 J | 100 J | 50 U | 50 U | 50 U |
| Manganese | | 7439-96-5 | 300 | 520 | 7.6 | 8.5 | 3 U | 210 | 3 U |
| Total Metals | ug/L | | | | | | | | |
| Iron | | 7439-89-6 | 300 | 2200 | 140 J | 160 J | 50 U | 50 U | 50 U |
| Manganese | | 7439-96-5 | 300 | 550 | 14 | 22 | 3 U | 220 | 13 J |
| Cyanides | ug/L | | | | | | | | |
| Total Cyanide | | 57-12-5 | 200 | 31 | 260 | 270 | 36 | 17 | 7.7 J |
| Other | ug/L | | | | | | | | |
| Alkalinity | | N/A | NE | 307000 J | 321000 J | 315000 J | 261000 J | 286000 J | 256000 J |
| Ammonia | | 7664-41-7 | 2000 | 820 | 860 | 580 | 430 | 430 | 220 J |
| Dissolved Organic Carbon | | N/A | NE | 690 J | 910 J | 860 J | 1000 U | 1000 U | 1000 U |
| Methane | | 74-82-8 | NE | 61 | 4 U | 4 U | 4 U | 4 U | 4 U |
| Nitrate as Nitrogen | | 14797-55-8 | 10000 | 340 J | 4000 J | 3000 J | 4900 J | 2400 J | 5800 J |
| Nitrite as Nitrogen | | 14797-65-0 | 1000 | 50 R | 50 R | 50 R | 50 R | 50 R | 50 R |
| Nitrate and Nitrite as Nitrogen | | N/A | 10000 | 340 J | 4000 J | 3000 J | 4900 J | 2400 J | 5800 J |
| Sulfate | | 14808-79-8 | 250000 | 39700 | 29200 | 38400 | 30000 | 27700 | 26900 |
| Total Organic Carbon | | N/A | NE | 740 J | 950 J | 900 J | 1000 U | 1000 U | 1000 U |

Notes:

Analytes in blue are not detected in any sample

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

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

PAH = Polycyclic Aromatic Hydrocarbon

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

N/A = Not applicable

ND = Not Detected

NE = Not Established

Bolding indicates a detected result concentration

Shading and bolding indicates that the detected concentration is above the standard it was compared to

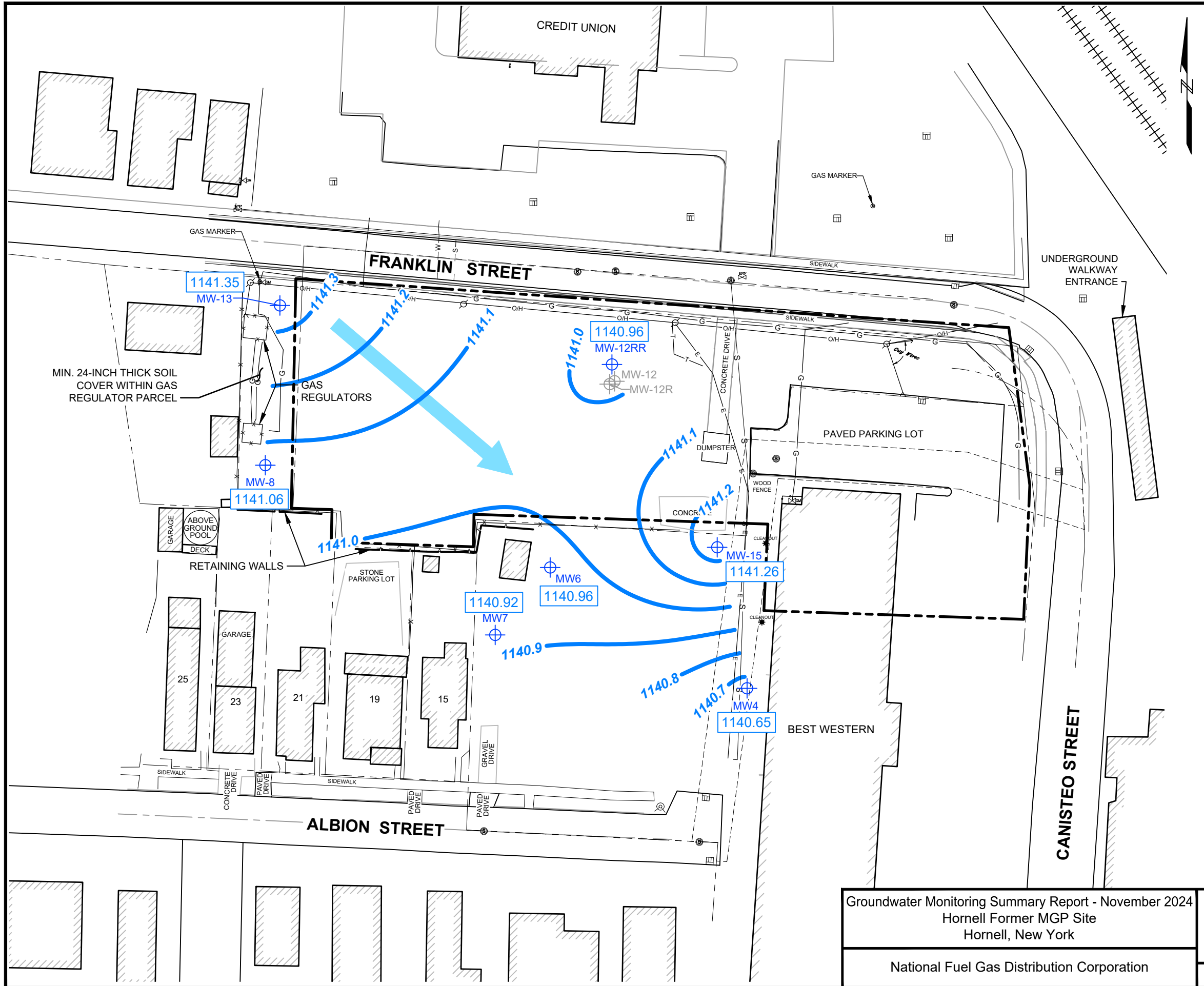
Validation Qualifiers:

J = The result is an estimated value.

R = The result is rejected.

U = The result was not detected above the reporting limit.

Figures



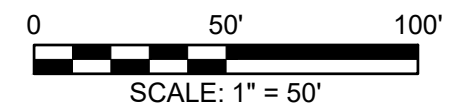
LEGEND

- MW1 MONITORING WELL
- MW12 FORMER MONITORING WELL
- 1141.0 GROUNDWATER CONTOUR (FEET NAVD88) - NOVEMBER 2024
- 1141.06 GROUNDWATER ELEVATION (FEET NAVD88) - NOVEMBER 2024
- INFERRED GROUNDWATER FLOW DIRECTION - NOVEMBER 2024
- APPROXIMATE SITE BOUNDARY (FROM NYSDEC)
- APPROXIMATE PROPERTY BOUNDARIES
- UTILITY EASEMENT
- CHAIN-LINK FENCE
- 15 EXISTING STRUCTURE & HOUSE NUMBER

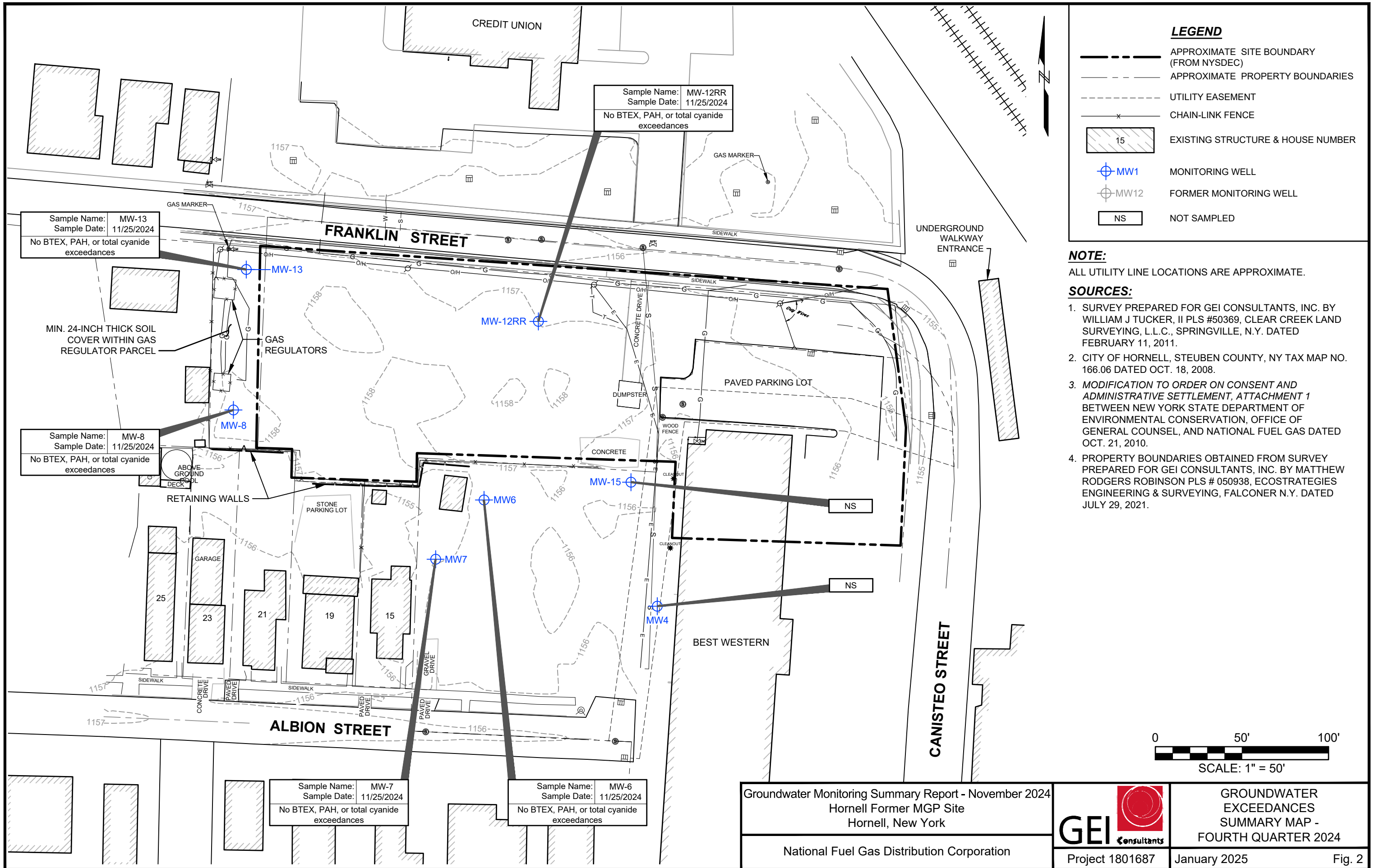
NOTE:
ALL UTILITY LINE LOCATIONS ARE APPROXIMATE.

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 - November 2024 Hornell Former MGP Site Hornell, New York | | | WELL LOCATION AND GROUNDWATER CONTOUR MAP - FOURTH QUARTER 2024 | |
| National Fuel Gas Distribution Corporation | | | Project 1801687 | January 2025 |



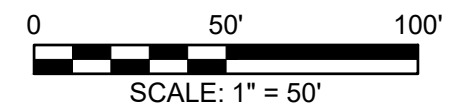
LEGEND

- APPROXIMATE SITE BOUNDARY (FROM NYSDEC)
- - - APPROXIMATE PROPERTY BOUNDARIES
- - - UTILITY EASEMENT
- x CHAIN-LINK FENCE
- 15 EXISTING STRUCTURE & HOUSE NUMBER
- ⊕ MW1 MONITORING WELL
- ⊕ MW12 FORMER MONITORING WELL
- NS NOT SAMPLED

NOTE:
ALL UTILITY LINE LOCATIONS ARE APPROXIMATE.

SOURCES:

1. SURVEY PREPARED FOR GEI CONSULTANTS, INC. BY WILLIAM J TUCKER, II PLS #50369, CLEAR CREEK LAND SURVEYING, L.L.C., SPRINGVILLE, N.Y. DATED FEBRUARY 11, 2011.
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Groundwater Monitoring Summary Report - November 2024
 Hornell Former MGP Site
 Hornell, New York
 National Fuel Gas Distribution Corporation



GROUNDWATER EXCEEDANCES SUMMARY MAP - FOURTH QUARTER 2024
 Project 1801687 January 2025 Fig. 2

Appendix A

Well Construction Log – MW12RR

Appendix B

CAMP Data – MW12RR Installation

CAMP Dust Monitoring Results
Hornell MGP Site
November 7, 2024 Well Installation

| | | | |
|----------------------|-------------|---------|---|
| Instrument Name | DustTrak II | 9:20 AM | 0 |
| Model Number | 8530 | 9:21 AM | 0 |
| Serial Number | 8530151805 | 9:22 AM | 0 |
| Firmware Version | 3.1 | 9:23 AM | 0 |
| Calibration Date | 5/21/2024 | 9:24 AM | 0 |
| Test Name | MANUAL_001 | 9:25 AM | 0 |
| Test Start Time | 8:56:15 AM | 9:26 AM | 0 |
| Test Start Date | 11/7/2024 | 9:27 AM | 0 |
| Test Length [D:H:M] | 0:05:39 | 9:28 AM | 0 |
| Test Interval [M:S] | 1:00 | 9:29 AM | 0 |
| Mass Average [mg/m3] | 0 | 9:30 AM | 0 |
| Mass Minimum [mg/m3] | 0 | 9:31 AM | 0 |
| Mass Maximum [mg/m3] | 0 | 9:32 AM | 0 |
| Mass TWA [mg/m3] | 0 | 9:33 AM | 0 |
| Photometric User Cal | 1 | 9:34 AM | 0 |
| Flow User Cal | 0 | 9:35 AM | 0 |
| Errors | N/A | 9:36 AM | 0 |
| Number of Samples | 339 | 9:37 AM | 0 |

| Sample Time | Mass [mg/m3] |
|-------------|--------------|
| 8:57 AM | 0 |
| 8:58 AM | 0 |
| 8:59 AM | 0 |
| 9:00 AM | 0 |
| 9:01 AM | 0 |
| 9:02 AM | 0 |
| 9:03 AM | 0 |
| 9:04 AM | 0 |
| 9:05 AM | 0 |
| 9:06 AM | 0 |
| 9:07 AM | 0 |
| 9:08 AM | 0 |
| 9:09 AM | 0 |
| 9:10 AM | 0 |
| 9:11 AM | 0 |
| 9:12 AM | 0 |
| 9:13 AM | 0 |
| 9:14 AM | 0 |
| 9:15 AM | 0 |
| 9:16 AM | 0 |
| 9:17 AM | 0 |
| 9:18 AM | 0 |
| 9:19 AM | 0 |

| | |
|----------|---|
| 9:38 AM | 0 |
| 9:39 AM | 0 |
| 9:40 AM | 0 |
| 9:41 AM | 0 |
| 9:42 AM | 0 |
| 9:43 AM | 0 |
| 9:44 AM | 0 |
| 9:45 AM | 0 |
| 9:46 AM | 0 |
| 9:47 AM | 0 |
| 9:48 AM | 0 |
| 9:49 AM | 0 |
| 9:50 AM | 0 |
| 9:51 AM | 0 |
| 9:52 AM | 0 |
| 9:53 AM | 0 |
| 9:54 AM | 0 |
| 9:55 AM | 0 |
| 9:56 AM | 0 |
| 9:57 AM | 0 |
| 9:58 AM | 0 |
| 9:59 AM | 0 |
| 10:00 AM | 0 |
| 10:01 AM | 0 |
| 10:02 AM | 0 |

CAMP Dust Monitoring Results
Hornell MGP Site
November 7, 2024 Well Installation

| | |
|----------|---|
| 10:03 AM | 0 |
| 10:04 AM | 0 |
| 10:05 AM | 0 |
| 10:06 AM | 0 |
| 10:07 AM | 0 |
| 10:08 AM | 0 |
| 10:09 AM | 0 |
| 10:10 AM | 0 |
| 10:11 AM | 0 |
| 10:12 AM | 0 |
| 10:13 AM | 0 |
| 10:14 AM | 0 |
| 10:15 AM | 0 |
| 10:16 AM | 0 |
| 10:17 AM | 0 |
| 10:18 AM | 0 |
| 10:19 AM | 0 |
| 10:20 AM | 0 |
| 10:21 AM | 0 |
| 10:22 AM | 0 |
| 10:23 AM | 0 |
| 10:24 AM | 0 |
| 10:25 AM | 0 |
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| 10:27 AM | 0 |
| 10:28 AM | 0 |
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| 10:30 AM | 0 |
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| 10:33 AM | 0 |
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| 10:35 AM | 0 |
| 10:36 AM | 0 |
| 10:37 AM | 0 |
| 10:38 AM | 0 |
| 10:39 AM | 0 |
| 10:40 AM | 0 |
| 10:41 AM | 0 |
| 10:42 AM | 0 |
| 10:43 AM | 0 |
| 10:44 AM | 0 |
| 10:45 AM | 0 |

| | |
|----------|---|
| 10:46 AM | 0 |
| 10:47 AM | 0 |
| 10:48 AM | 0 |
| 10:49 AM | 0 |
| 10:50 AM | 0 |
| 10:51 AM | 0 |
| 10:52 AM | 0 |
| 10:53 AM | 0 |
| 10:54 AM | 0 |
| 10:55 AM | 0 |
| 10:56 AM | 0 |
| 10:57 AM | 0 |
| 10:58 AM | 0 |
| 10:59 AM | 0 |
| 11:00 AM | 0 |
| 11:01 AM | 0 |
| 11:02 AM | 0 |
| 11:03 AM | 0 |
| 11:04 AM | 0 |
| 11:05 AM | 0 |
| 11:06 AM | 0 |
| 11:07 AM | 0 |
| 11:08 AM | 0 |
| 11:09 AM | 0 |
| 11:10 AM | 0 |
| 11:11 AM | 0 |
| 11:12 AM | 0 |
| 11:13 AM | 0 |
| 11:14 AM | 0 |
| 11:15 AM | 0 |
| 11:16 AM | 0 |
| 11:17 AM | 0 |
| 11:18 AM | 0 |
| 11:19 AM | 0 |
| 11:20 AM | 0 |
| 11:21 AM | 0 |
| 11:22 AM | 0 |
| 11:23 AM | 0 |
| 11:24 AM | 0 |
| 11:25 AM | 0 |
| 11:26 AM | 0 |
| 11:27 AM | 0 |
| 11:28 AM | 0 |

CAMP Dust Monitoring Results
Hornell MGP Site
November 7, 2024 Well Installation

| | | | |
|----------|---|----------|---|
| 11:29 AM | 0 | 12:12 PM | 0 |
| 11:30 AM | 0 | 12:13 PM | 0 |
| 11:31 AM | 0 | 12:14 PM | 0 |
| 11:32 AM | 0 | 12:15 PM | 0 |
| 11:33 AM | 0 | 12:16 PM | 0 |
| 11:34 AM | 0 | 12:17 PM | 0 |
| 11:35 AM | 0 | 12:18 PM | 0 |
| 11:36 AM | 0 | 12:19 PM | 0 |
| 11:37 AM | 0 | 12:20 PM | 0 |
| 11:38 AM | 0 | 12:21 PM | 0 |
| 11:39 AM | 0 | 12:22 PM | 0 |
| 11:40 AM | 0 | 12:23 PM | 0 |
| 11:41 AM | 0 | 12:24 PM | 0 |
| 11:42 AM | 0 | 12:25 PM | 0 |
| 11:43 AM | 0 | 12:26 PM | 0 |
| 11:44 AM | 0 | 12:27 PM | 0 |
| 11:45 AM | 0 | 12:28 PM | 0 |
| 11:46 AM | 0 | 12:29 PM | 0 |
| 11:47 AM | 0 | 12:30 PM | 0 |
| 11:48 AM | 0 | 12:31 PM | 0 |
| 11:49 AM | 0 | 12:32 PM | 0 |
| 11:50 AM | 0 | 12:33 PM | 0 |
| 11:51 AM | 0 | 12:34 PM | 0 |
| 11:52 AM | 0 | 12:35 PM | 0 |
| 11:53 AM | 0 | 12:36 PM | 0 |
| 11:54 AM | 0 | 12:37 PM | 0 |
| 11:55 AM | 0 | 12:38 PM | 0 |
| 11:56 AM | 0 | 12:39 PM | 0 |
| 11:57 AM | 0 | 12:40 PM | 0 |
| 11:58 AM | 0 | 12:41 PM | 0 |
| 11:59 AM | 0 | 12:42 PM | 0 |
| 12:00 PM | 0 | 12:43 PM | 0 |
| 12:01 PM | 0 | 12:44 PM | 0 |
| 12:02 PM | 0 | 12:45 PM | 0 |
| 12:03 PM | 0 | 12:46 PM | 0 |
| 12:04 PM | 0 | 12:47 PM | 0 |
| 12:05 PM | 0 | 12:48 PM | 0 |
| 12:06 PM | 0 | 12:49 PM | 0 |
| 12:07 PM | 0 | 12:50 PM | 0 |
| 12:08 PM | 0 | 12:51 PM | 0 |
| 12:09 PM | 0 | 12:52 PM | 0 |
| 12:10 PM | 0 | 12:53 PM | 0 |
| 12:11 PM | 0 | 12:54 PM | 0 |

CAMP Dust Monitoring Results
Hornell MGP Site
November 7, 2024 Well Installation

| | |
|----------|---|
| 12:55 PM | 0 |
| 12:56 PM | 0 |
| 12:57 PM | 0 |
| 12:58 PM | 0 |
| 12:59 PM | 0 |
| 1:00 PM | 0 |
| 1:01 PM | 0 |
| 1:02 PM | 0 |
| 1:03 PM | 0 |
| 1:04 PM | 0 |
| 1:05 PM | 0 |
| 1:06 PM | 0 |
| 1:07 PM | 0 |
| 1:08 PM | 0 |
| 1:09 PM | 0 |
| 1:10 PM | 0 |
| 1:11 PM | 0 |
| 1:12 PM | 0 |
| 1:13 PM | 0 |
| 1:14 PM | 0 |
| 1:15 PM | 0 |
| 1:16 PM | 0 |
| 1:17 PM | 0 |
| 1:18 PM | 0 |
| 1:19 PM | 0 |
| 1:20 PM | 0 |
| 1:21 PM | 0 |
| 1:22 PM | 0 |
| 1:23 PM | 0 |
| 1:24 PM | 0 |
| 1:25 PM | 0 |
| 1:26 PM | 0 |
| 1:27 PM | 0 |
| 1:28 PM | 0 |
| 1:29 PM | 0 |
| 1:30 PM | 0 |
| 1:31 PM | 0 |
| 1:32 PM | 0 |
| 1:33 PM | 0 |
| 1:34 PM | 0 |
| 1:35 PM | 0 |
| 1:36 PM | 0 |
| 1:37 PM | 0 |

| | |
|---------|---|
| 1:38 PM | 0 |
| 1:39 PM | 0 |
| 1:40 PM | 0 |
| 1:41 PM | 0 |
| 1:42 PM | 0 |
| 1:43 PM | 0 |
| 1:44 PM | 0 |
| 1:45 PM | 0 |
| 1:46 PM | 0 |
| 1:47 PM | 0 |
| 1:48 PM | 0 |
| 1:49 PM | 0 |
| 1:50 PM | 0 |
| 1:51 PM | 0 |
| 1:52 PM | 0 |
| 1:53 PM | 0 |
| 1:54 PM | 0 |
| 1:55 PM | 0 |
| 1:56 PM | 0 |
| 1:57 PM | 0 |
| 1:58 PM | 0 |
| 1:59 PM | 0 |
| 2:00 PM | 0 |
| 2:01 PM | 0 |
| 2:02 PM | 0 |
| 2:03 PM | 0 |
| 2:04 PM | 0 |
| 2:05 PM | 0 |
| 2:06 PM | 0 |
| 2:07 PM | 0 |
| 2:08 PM | 0 |
| 2:09 PM | 0 |
| 2:10 PM | 0 |
| 2:11 PM | 0 |
| 2:12 PM | 0 |
| 2:13 PM | 0 |
| 2:14 PM | 0 |
| 2:15 PM | 0 |
| 2:16 PM | 0 |
| 2:17 PM | 0 |
| 2:18 PM | 0 |
| 2:19 PM | 0 |
| 2:20 PM | 0 |

CAMP Dust Monitoring Results
Hornell MGP Site
November 7, 2024 Well Installation

| | |
|---------|---|
| 2:21 PM | 0 |
| 2:22 PM | 0 |
| 2:23 PM | 0 |
| 2:24 PM | 0 |
| 2:25 PM | 0 |
| 2:26 PM | 0 |
| 2:27 PM | 0 |
| 2:28 PM | 0 |
| 2:29 PM | 0 |
| 2:30 PM | 0 |
| 2:31 PM | 0 |
| 2:32 PM | 0 |
| 2:33 PM | 0 |
| 2:34 PM | 0 |
| 2:35 PM | 0 |

CAMP Dust Monitoring Results
Hornell MGP Site
November 8, 2024 Well Installation

Instrument Name DustTrak II
Model Number 8530
Serial Number 8530151805
Firmware Version 3.1
Calibration Date 5/21/2024
Test Name MANUAL_002
Test Start Time 8:40:11 AM
Test Start Date 11/8/2024
Test Length [D:H:M] 0:02:46
Test Interval [M:S] 1:00
Mass Average [mg/m3] 0
Mass Minimum [mg/m3] 0
Mass Maximum [mg/m3] 0
Mass TWA [mg/m3] 0
Photometric User Cal 1
Flow User Cal 0
Errors N/A
Number of Samples 166

| | |
|---------|---|
| 9:05 AM | 0 |
| 9:06 AM | 0 |
| 9:07 AM | 0 |
| 9:08 AM | 0 |
| 9:09 AM | 0 |
| 9:10 AM | 0 |
| 9:11 AM | 0 |
| 9:12 AM | 0 |
| 9:13 AM | 0 |
| 9:14 AM | 0 |
| 9:15 AM | 0 |
| 9:16 AM | 0 |
| 9:17 AM | 0 |
| 9:18 AM | 0 |
| 9:19 AM | 0 |
| 9:20 AM | 0 |
| 9:21 AM | 0 |
| 9:22 AM | 0 |
| 9:23 AM | 0 |
| 9:24 AM | 0 |
| 9:25 AM | 0 |
| 9:26 AM | 0 |
| 9:27 AM | 0 |
| 9:28 AM | 0 |
| 9:29 AM | 0 |
| 9:30 AM | 0 |
| 9:31 AM | 0 |
| 9:32 AM | 0 |
| 9:33 AM | 0 |
| 9:34 AM | 0 |
| 9:35 AM | 0 |
| 9:36 AM | 0 |
| 9:37 AM | 0 |
| 9:38 AM | 0 |
| 9:39 AM | 0 |
| 9:40 AM | 0 |
| 9:41 AM | 0 |
| 9:42 AM | 0 |
| 9:43 AM | 0 |
| 9:44 AM | 0 |
| 9:45 AM | 0 |
| 9:46 AM | 0 |
| 9:47 AM | 0 |
| 9:48 AM | 0 |

| Sample Time | Mass [mg/m3] |
|-------------|--------------|
| 8:41 AM | 0 |
| 8:42 AM | 0 |
| 8:43 AM | 0 |
| 8:44 AM | 0 |
| 8:45 AM | 0 |
| 8:46 AM | 0 |
| 8:47 AM | 0 |
| 8:48 AM | 0 |
| 8:49 AM | 0 |
| 8:50 AM | 0 |
| 8:51 AM | 0 |
| 8:52 AM | 0 |
| 8:53 AM | 0 |
| 8:54 AM | 0 |
| 8:55 AM | 0 |
| 8:56 AM | 0 |
| 8:57 AM | 0 |
| 8:58 AM | 0 |
| 8:59 AM | 0 |
| 9:00 AM | 0 |
| 9:01 AM | 0 |
| 9:02 AM | 0 |
| 9:03 AM | 0 |
| 9:04 AM | 0 |

CAMP Dust Monitoring Results
Hornell MGP Site
November 8, 2024 Well Installation

| | |
|----------|---|
| 9:49 AM | 0 |
| 9:50 AM | 0 |
| 9:51 AM | 0 |
| 9:52 AM | 0 |
| 9:53 AM | 0 |
| 9:54 AM | 0 |
| 9:55 AM | 0 |
| 9:56 AM | 0 |
| 9:57 AM | 0 |
| 9:58 AM | 0 |
| 9:59 AM | 0 |
| 10:00 AM | 0 |
| 10:01 AM | 0 |
| 10:02 AM | 0 |
| 10:03 AM | 0 |
| 10:04 AM | 0 |
| 10:05 AM | 0 |
| 10:06 AM | 0 |
| 10:07 AM | 0 |
| 10:08 AM | 0 |
| 10:09 AM | 0 |
| 10:10 AM | 0 |
| 10:11 AM | 0 |
| 10:12 AM | 0 |
| 10:13 AM | 0 |
| 10:14 AM | 0 |
| 10:15 AM | 0 |
| 10:16 AM | 0 |
| 10:17 AM | 0 |
| 10:18 AM | 0 |
| 10:19 AM | 0 |
| 10:20 AM | 0 |
| 10:21 AM | 0 |
| 10:22 AM | 0 |
| 10:23 AM | 0 |
| 10:24 AM | 0 |
| 10:25 AM | 0 |
| 10:26 AM | 0 |
| 10:27 AM | 0 |
| 10:28 AM | 0 |
| 10:29 AM | 0 |
| 10:30 AM | 0 |
| 10:31 AM | 0 |
| 10:32 AM | 0 |

| | |
|----------|---|
| 10:33 AM | 0 |
| 10:34 AM | 0 |
| 10:35 AM | 0 |
| 10:36 AM | 0 |
| 10:37 AM | 0 |
| 10:38 AM | 0 |
| 10:39 AM | 0 |
| 10:40 AM | 0 |
| 10:41 AM | 0 |
| 10:42 AM | 0 |
| 10:43 AM | 0 |
| 10:44 AM | 0 |
| 10:45 AM | 0 |
| 10:46 AM | 0 |
| 10:47 AM | 0 |
| 10:48 AM | 0 |
| 10:49 AM | 0 |
| 10:50 AM | 0 |
| 10:51 AM | 0 |
| 10:52 AM | 0 |
| 10:53 AM | 0 |
| 10:54 AM | 0 |
| 10:55 AM | 0 |
| 10:56 AM | 0 |
| 10:57 AM | 0 |
| 10:58 AM | 0 |
| 10:59 AM | 0 |
| 11:00 AM | 0 |
| 11:01 AM | 0 |
| 11:02 AM | 0 |
| 11:03 AM | 0 |
| 11:04 AM | 0 |
| 11:05 AM | 0 |
| 11:06 AM | 0 |
| 11:07 AM | 0 |
| 11:08 AM | 0 |
| 11:09 AM | 0 |
| 11:10 AM | 0 |
| 11:11 AM | 0 |
| 11:12 AM | 0 |
| 11:13 AM | 0 |
| 11:14 AM | 0 |
| 11:15 AM | 0 |
| 11:16 AM | 0 |

CAMP Dust Monitoring Results
Hornell MGP Site
November 8, 2024 Well Installation

| | |
|----------|---|
| 11:17 AM | 0 |
| 11:18 AM | 0 |
| 11:19 AM | 0 |
| 11:20 AM | 0 |
| 11:21 AM | 0 |
| 11:22 AM | 0 |
| 11:23 AM | 0 |
| 11:24 AM | 0 |
| 11:25 AM | 0 |
| 11:26 AM | 0 |

Appendix C

Chain-of-Custody Record and Form 1 Report Sheet

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jeff Holden
GEI Consultants Inc
950 Danby Road
Suite 201-F
Ithaca, New York 14850

Generated 12/12/2024 10:45:56 AM Revision 1

JOB DESCRIPTION

Quarterly Groundwater

JOB NUMBER

480-225829-1

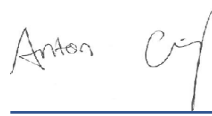
Eurofins Buffalo

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



Generated
12/12/2024 10:45:56 AM
Revision 1

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838



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Definitions/Glossary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD 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. |

Metals

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

General Chemistry

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| H | Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements. |
| H3 | Sample was received and analyzed past holding time. This does not meet regulatory requirements. |
| 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 |

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Case Narrative

Client: GEI Consultants Inc
Project: Quarterly Groundwater

Job ID: 480-225829-1

Job ID: 480-225829-1

Eurofins Buffalo

Job Narrative 480-225829-1

REVISION

The report being provided is a revision of the original report sent on 12/10/2024. The report (revision 1) is being revised to report the SVOC results of sample MW12RR (480-225829-4) at a lower dilution.

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

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

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

Receipt

The samples were received on 11/27/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.6°C, 4.8°C and 5.5°C.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): FB112524 (480-225829-8).

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to the nature of the sample matrix: MW12RR (480-225829-4), MW12RR-MS (480-225829-4[MS]) and MW12RR-MSD (480-225829-4[MSD]). Elevated reporting limits (RLs) are provided.

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

GC VOA

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

Metals

Method 6010C - Dissolved: The method blank for preparation batch 480-733903 and analytical batch 480-734103 contained dissolved Manganese above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010C - Dissolved: The method blank for preparation batch 480-733903 contained dissolved Manganese above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 6010C - Dissolved: The method blank for preparation batch 480-733903 contained dissolved Iron above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 6010C - Dissolved: The method blank for preparation batch 480-733903 contained dissolved Manganese above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 6010C - Dissolved: The method blank for preparation batch 480-733903 and analytical batch 480-734103 contained dissolved Manganese above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

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Case Narrative

Client: GEI Consultants Inc
Project: Quarterly Groundwater

Job ID: 480-225829-1

Job ID: 480-225829-1 (Continued)

Eurofins Buffalo

General Chemistry

Method 353.2_Nitrite: The following samples were analyzed outside of analytical holding time due to analytical instrument error: MW6 (480-225829-1), MW7 (480-225829-2), MW8 (480-225829-3), MW12RR (480-225829-4), MW12RR-MS (480-225829-4[MS]), MW12RR-MSD (480-225829-4[MSD]) and MW13 (480-225829-5).

Method 353.2_Nitrite: The following samples were received outside of holding time: DUP112524 (480-225829-6) and FB112524 (480-225829-8).

Method D516: The method blank for analytical batch 480-734415 contained sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method Nitrate_Calc: The following samples were analyzed outside of analytical holding time due to instrument malfunction: MW6 (480-225829-1), MW7 (480-225829-2), MW8 (480-225829-3), MW12RR (480-225829-4) and MW13 (480-225829-5).

Method Nitrate_Calc: The following samples were received outside of holding time: DUP112524 (480-225829-6) and FB112524 (480-225829-8).

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

Eurofins Buffalo

Detection Summary

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW6

Lab Sample ID: 480-225829-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|--------|---------|------|---------|---|-----------------|-----------|
| Acenaphthene | 6.7 | | 5.0 | 0.41 | ug/L | 1 | | 8270D | Total/NA |
| Acenaphthylene | 2.2 | J | 5.0 | 0.38 | ug/L | 1 | | 8270D | Total/NA |
| Fluorene | 7.1 | | 5.0 | 0.36 | ug/L | 1 | | 8270D | Total/NA |
| Methane | 61 | | 4.0 | 1.0 | ug/L | 1 | | RSK-175 | Total/NA |
| Iron | 2.2 | | 0.050 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.55 | B | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Iron, Dissolved | 1.5 | | 0.050 | 0.019 | mg/L | 1 | | 6010C | Dissolved |
| Manganese, Dissolved | 0.52 | B | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Dissolved |
| Ammonia | 0.82 | B | 0.020 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Cyanide, Total | 0.031 | | 0.010 | 0.0041 | mg/L | 1 | | 9012B | Total/NA |
| Sulfate | 39.7 | | 25.0 | 7.5 | mg/L | 5 | | D516-90, 02 | Total/NA |
| Nitrate as N | 0.34 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Nitrate Nitrite as N | 0.34 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Total Alkalinity | 307 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 0.74 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310D | Total/NA |
| Dissolved Organic Carbon | 0.69 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Dissolved |

Client Sample ID: MW7

Lab Sample ID: 480-225829-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|--------|---------|------|---------|---|-----------------|-----------|
| Iron | 0.14 | | 0.050 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.014 | B | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Iron, Dissolved | 0.10 | | 0.050 | 0.019 | mg/L | 1 | | 6010C | Dissolved |
| Manganese, Dissolved | 0.0076 | | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Dissolved |
| Ammonia | 0.86 | B | 0.020 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrite as N | 0.026 | J H F 1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Cyanide, Total | 0.26 | | 0.010 | 0.0041 | mg/L | 1 | | 9012B | Total/NA |
| Sulfate | 29.2 | B | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Nitrate as N | 4.0 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Nitrate Nitrite as N | 4.0 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Total Alkalinity | 321 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 0.95 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310D | Total/NA |
| Dissolved Organic Carbon | 0.91 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Dissolved |

Client Sample ID: MW8

Lab Sample ID: 480-225829-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|-------|--------|------|---------|---|-----------------|-----------|
| Iron | 0.027 | J | 0.050 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Ammonia | 0.43 | B | 0.020 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Cyanide, Total | 0.036 | | 0.010 | 0.0041 | mg/L | 1 | | 9012B | Total/NA |
| Sulfate | 30.0 | B | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Nitrate as N | 4.9 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Nitrate Nitrite as N | 4.9 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Total Alkalinity | 261 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW12RR

Lab Sample ID: 480-225829-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Iron | 0.020 | J | 0.050 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.22 | B | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Manganese, Dissolved | 0.21 | B | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Dissolved |
| Ammonia | 0.43 | B | 0.020 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW12RR (Continued)

Lab Sample ID: 480-225829-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|-------|--------|------|---------|---|-----------------|-----------|
| Nitrite as N | 0.045 | J H F1 | 0.050 | 0.020 | mg/L | 1 | | 353.2 | Total/NA |
| Cyanide, Total | 0.017 | | 0.010 | 0.0041 | mg/L | 1 | | 9012B | Total/NA |
| Sulfate | 27.7 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Nitrate as N | 2.4 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Nitrate Nitrite as N | 2.4 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Total Alkalinity | 286 | F1 | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: MW13

Lab Sample ID: 480-225829-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|---------|------|---------|---|-----------------|-----------|
| Iron | 0.035 | J | 0.050 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.013 | B | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Ammonia | 0.22 | F2 B | 0.020 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Cyanide, Total | 0.0077 | J | 0.010 | 0.0041 | mg/L | 1 | | 9012B | Total/NA |
| Sulfate | 26.9 | B | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Nitrate as N | 5.8 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Nitrate Nitrite as N | 5.8 | H | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Total Alkalinity | 256 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |

Client Sample ID: DUP112524

Lab Sample ID: 480-225829-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|--------|---------|------|---------|---|-----------------|-----------|
| Iron | 0.16 | | 0.050 | 0.019 | mg/L | 1 | | 6010C | Total/NA |
| Manganese | 0.022 | B | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Total/NA |
| Iron, Dissolved | 0.10 | | 0.050 | 0.019 | mg/L | 1 | | 6010C | Dissolved |
| Manganese, Dissolved | 0.0085 | | 0.0030 | 0.00040 | mg/L | 1 | | 6010C | Dissolved |
| Ammonia | 0.58 | B | 0.020 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Cyanide, Total | 0.27 | | 0.010 | 0.0041 | mg/L | 1 | | 9012B | Total/NA |
| Sulfate | 38.4 | | 5.0 | 1.5 | mg/L | 1 | | D516-90, 02 | Total/NA |
| Nitrate as N | 3.0 | H H3 | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Nitrate Nitrite as N | 3.0 | H H3 | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Total Alkalinity | 315 | | 5.0 | 0.79 | mg/L | 1 | | SM 2320B | Total/NA |
| Total Organic Carbon | 0.90 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310D | Total/NA |
| Dissolved Organic Carbon | 0.86 | J | 1.0 | 0.43 | mg/L | 1 | | SM 5310C | Dissolved |

Client Sample ID: Trip Blank

Lab Sample ID: 480-225829-7

No Detections.

Client Sample ID: FB112524

Lab Sample ID: 480-225829-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|-------|--------|------|---------|---|-----------------|-----------|
| Ammonia | 0.26 | B | 0.020 | 0.0090 | mg/L | 1 | | 350.1 | Total/NA |
| Nitrate as N | 0.027 | J H H3 | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |
| Nitrate Nitrite as N | 0.027 | J H H3 | 0.050 | 0.020 | mg/L | 1 | | Nitrate by calc | Total/NA |

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW6

Lab Sample ID: 480-225829-1

Date Collected: 11/25/24 15:40

Matrix: Water

Date Received: 11/27/24 10:00

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 | | | 11/27/24 19:45 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/27/24 19:45 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/27/24 19:45 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/27/24 19:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 77 - 120 | | 11/27/24 19:45 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 73 - 120 | | 11/27/24 19:45 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 75 - 123 | | 11/27/24 19:45 | 1 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 | | 11/27/24 19:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene | 6.7 | | 5.0 | 0.41 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Acenaphthylene | 2.2 | J | 5.0 | 0.38 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Anthracene | ND | | 5.0 | 0.28 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Benzo[a]anthracene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Benzo[a]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Benzo[b]fluoranthene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.0 | 0.35 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Benzo[k]fluoranthene | ND | | 5.0 | 0.73 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Chrysene | ND | | 5.0 | 0.33 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 0.42 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Fluoranthene | ND | | 5.0 | 0.40 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Fluorene | 7.1 | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Naphthalene | ND | | 5.0 | 0.76 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Pyrene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 17:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 93 | | 53 - 126 | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| Nitrobenzene-d5 (Surr) | 79 | | 29 - 129 | 11/27/24 11:40 | 12/02/24 17:02 | 1 |
| p-Terphenyl-d14 (Surr) | 80 | | 33 - 132 | 11/27/24 11:40 | 12/02/24 17:02 | 1 |

Method: RSK-175 - Dissolved Gases (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methane | 61 | | 4.0 | 1.0 | ug/L | | | 12/02/24 11:27 | 1 |

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron | 2.2 | | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 17:46 | 1 |
| Manganese | 0.55 | B | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:12 | 12/02/24 17:46 | 1 |

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron, Dissolved | 1.5 | | 0.050 | 0.019 | mg/L | | 12/06/24 08:54 | 12/06/24 14:50 | 1 |
| Manganese, Dissolved | 0.52 | B | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:09 | 12/02/24 19:11 | 1 |

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Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW6
 Date Collected: 11/25/24 15:40
 Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-1
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Ammonia (EPA 350.1) | 0.82 | B | 0.020 | 0.0090 | mg/L | | | 12/04/24 18:12 | 1 |
| Nitrite as N (EPA 353.2) | ND | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:15 | 1 |
| Cyanide, Total (SW846 9012B) | 0.031 | | 0.010 | 0.0041 | mg/L | | | 12/03/24 10:08 | 1 |
| Sulfate (ASTM D516-90, 02) | 39.7 | | 25.0 | 7.5 | mg/L | | | 12/05/24 09:31 | 5 |
| Nitrate as N (SM Nitrate by calc) | 0.34 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:15 | 1 |
| Nitrate Nitrite as N (SM Nitrate by calc) | 0.34 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:15 | 1 |
| Total Alkalinity (SM 2320B) | 307 | | 5.0 | 0.79 | mg/L | | | 11/27/24 17:47 | 1 |
| Total Organic Carbon (SM 5310D) | 0.74 | J | 1.0 | 0.43 | mg/L | | | 12/03/24 13:53 | 1 |

General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon (SM 5310C) | 0.69 | J | 1.0 | 0.43 | mg/L | | | 12/03/24 18:31 | 1 |

Client Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW7

Lab Sample ID: 480-225829-2

Date Collected: 11/25/24 13:10

Matrix: Water

Date Received: 11/27/24 10:00

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 | | | 11/27/24 20:10 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/27/24 20:10 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/27/24 20:10 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/27/24 20:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 77 - 120 | | | | | 11/27/24 20:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 73 - 120 | | | | | 11/27/24 20:10 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 75 - 123 | | | | | 11/27/24 20:10 | 1 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | | | | 11/27/24 20:10 | 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 | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Acenaphthylene | ND | | 5.0 | 0.38 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Anthracene | ND | | 5.0 | 0.28 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Benzo[a]anthracene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Benzo[a]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Benzo[b]fluoranthene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Benzo[g,h,i]perylene | ND | | 5.0 | 0.35 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Benzo[k]fluoranthene | ND | | 5.0 | 0.73 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Chrysene | ND | | 5.0 | 0.33 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Dibenz(a,h)anthracene | ND | | 5.0 | 0.42 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Fluoranthene | ND | | 5.0 | 0.40 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Fluorene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Naphthalene | ND | | 5.0 | 0.76 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Pyrene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 17:28 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| 2-Fluorobiphenyl (Surr) | 99 | | 53 - 126 | | | | | 11/27/24 11:40 | 12/02/24 17:28 | 1 |
| Nitrobenzene-d5 (Surr) | 86 | | 29 - 129 | | | | | 11/27/24 11:40 | 12/02/24 17:28 | 1 |
| p-Terphenyl-d14 (Surr) | 88 | | 33 - 132 | | | | | 11/27/24 11:40 | 12/02/24 17:28 | 1 |

Method: RSK-175 - Dissolved Gases (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methane | ND | | 4.0 | 1.0 | ug/L | | | 12/02/24 11:45 | 1 |

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron | 0.14 | | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 17:47 | 1 |
| Manganese | 0.014 | B | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:12 | 12/02/24 17:47 | 1 |

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron, Dissolved | 0.10 | | 0.050 | 0.019 | mg/L | | 12/06/24 08:54 | 12/06/24 14:52 | 1 |
| Manganese, Dissolved | 0.0076 | | 0.0030 | 0.00040 | mg/L | | 12/06/24 08:54 | 12/06/24 14:52 | 1 |

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Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW7
 Date Collected: 11/25/24 13:10
 Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-2
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Ammonia (EPA 350.1) | 0.86 | B | 0.020 | 0.0090 | mg/L | | | 12/04/24 18:14 | 1 |
| Nitrite as N (EPA 353.2) | 0.026 | J H F1 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:17 | 1 |
| Cyanide, Total (SW846 9012B) | 0.26 | | 0.010 | 0.0041 | mg/L | | | 12/03/24 10:11 | 1 |
| Sulfate (ASTM D516-90, 02) | 29.2 | B | 5.0 | 1.5 | mg/L | | | 12/05/24 09:25 | 1 |
| Nitrate as N (SM Nitrate by calc) | 4.0 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:17 | 1 |
| Nitrate Nitrite as N (SM Nitrate by calc) | 4.0 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:17 | 1 |
| Total Alkalinity (SM 2320B) | 321 | | 5.0 | 0.79 | mg/L | | | 11/27/24 18:25 | 1 |
| Total Organic Carbon (SM 5310D) | 0.95 | J | 1.0 | 0.43 | mg/L | | | 12/03/24 14:48 | 1 |

General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon (SM 5310C) | 0.91 | J | 1.0 | 0.43 | mg/L | | | 12/03/24 18:58 | 1 |

Client Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW8

Lab Sample ID: 480-225829-3

Date Collected: 11/25/24 17:30

Matrix: Water

Date Received: 11/27/24 10:00

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 | | | 11/27/24 20:34 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/27/24 20:34 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/27/24 20:34 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/27/24 20:34 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 77 - 120 | | 11/27/24 20:34 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | | 73 - 120 | | 11/27/24 20:34 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 75 - 123 | | 11/27/24 20:34 | 1 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | 11/27/24 20:34 | 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 | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Acenaphthylene | ND | | 5.0 | 0.38 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Anthracene | ND | | 5.0 | 0.28 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Benzo[a]anthracene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Benzo[a]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Benzo[b]fluoranthene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.0 | 0.35 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Benzo[k]fluoranthene | ND | | 5.0 | 0.73 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Chrysene | ND | | 5.0 | 0.33 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 0.42 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Fluoranthene | ND | | 5.0 | 0.40 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Fluorene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Naphthalene | ND | | 5.0 | 0.76 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Pyrene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 17:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 86 | | 53 - 126 | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| Nitrobenzene-d5 (Surr) | 74 | | 29 - 129 | 11/27/24 11:40 | 12/02/24 17:54 | 1 |
| p-Terphenyl-d14 (Surr) | 85 | | 33 - 132 | 11/27/24 11:40 | 12/02/24 17:54 | 1 |

Method: RSK-175 - Dissolved Gases (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methane | ND | | 4.0 | 1.0 | ug/L | | | 12/02/24 12:04 | 1 |

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron | 0.027 | J | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 17:49 | 1 |
| Manganese | ND | | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:12 | 12/02/24 17:49 | 1 |

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron, Dissolved | ND | | 0.050 | 0.019 | mg/L | | 12/06/24 08:54 | 12/06/24 14:54 | 1 |
| Manganese, Dissolved | ND | | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:09 | 12/02/24 19:15 | 1 |

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Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW8
 Date Collected: 11/25/24 17:30
 Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-3
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Ammonia (EPA 350.1) | 0.43 | B | 0.020 | 0.0090 | mg/L | | | 12/04/24 18:14 | 1 |
| Nitrite as N (EPA 353.2) | ND | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:18 | 1 |
| Cyanide, Total (SW846 9012B) | 0.036 | | 0.010 | 0.0041 | mg/L | | | 12/03/24 10:14 | 1 |
| Sulfate (ASTM D516-90, 02) | 30.0 | B | 5.0 | 1.5 | mg/L | | | 12/05/24 09:25 | 1 |
| Nitrate as N (SM Nitrate by calc) | 4.9 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:18 | 1 |
| Nitrate Nitrite as N (SM Nitrate by calc) | 4.9 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:18 | 1 |
| Total Alkalinity (SM 2320B) | 261 | | 5.0 | 0.79 | mg/L | | | 11/27/24 18:32 | 1 |
| Total Organic Carbon (SM 5310D) | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 15:15 | 1 |

General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 19:26 | 1 |

Client Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW12RR

Lab Sample ID: 480-225829-4

Date Collected: 11/25/24 12:40

Matrix: Water

Date Received: 11/27/24 10:00

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 | | | 11/27/24 20:59 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/27/24 20:59 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/27/24 20:59 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/27/24 20:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 77 - 120 | | 11/27/24 20:59 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 73 - 120 | | 11/27/24 20:59 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 75 - 123 | | 11/27/24 20:59 | 1 |
| Toluene-d8 (Surr) | 94 | | 80 - 120 | | 11/27/24 20:59 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|------|------|---|----------------|----------------|---------|
| Acenaphthene | ND | | 10 | 0.82 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Acenaphthylene | ND | | 10 | 0.76 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Anthracene | ND | | 10 | 0.56 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Benzo[a]anthracene | ND | | 10 | 0.72 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Benzo[a]pyrene | ND | | 10 | 0.94 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Benzo[b]fluoranthene | ND | | 10 | 0.68 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Benzo[g,h,i]perylene | ND | | 10 | 0.70 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Benzo[k]fluoranthene | ND | | 10 | 1.5 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Chrysene | ND | F2 | 10 | 0.66 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Dibenz(a,h)anthracene | ND | | 10 | 0.84 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Fluoranthene | ND | | 10 | 0.80 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Fluorene | ND | | 10 | 0.72 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Indeno[1,2,3-cd]pyrene | ND | | 10 | 0.94 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Naphthalene | ND | | 10 | 1.5 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Phenanthrene | ND | | 10 | 0.88 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Pyrene | ND | | 10 | 0.68 | ug/L | | 11/27/24 11:40 | 12/10/24 22:51 | 2 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 108 | | 53 - 126 | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| Nitrobenzene-d5 (Surr) | 92 | | 29 - 129 | 11/27/24 11:40 | 12/10/24 22:51 | 2 |
| p-Terphenyl-d14 (Surr) | 91 | | 33 - 132 | 11/27/24 11:40 | 12/10/24 22:51 | 2 |

Method: RSK-175 - Dissolved Gases (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methane | ND | | 4.0 | 1.0 | ug/L | | | 12/02/24 08:56 | 1 |

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron | 0.020 | J | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 17:51 | 1 |
| Manganese | 0.22 | B | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:12 | 12/02/24 17:51 | 1 |

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron, Dissolved | ND | | 0.050 | 0.019 | mg/L | | 12/02/24 09:09 | 12/02/24 19:23 | 1 |
| Manganese, Dissolved | 0.21 | B | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:09 | 12/02/24 19:23 | 1 |

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Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW12RR

Lab Sample ID: 480-225829-4

Date Collected: 11/25/24 12:40

Matrix: Water

Date Received: 11/27/24 10:00

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Ammonia (EPA 350.1) | 0.43 | B | 0.020 | 0.0090 | mg/L | | | 12/04/24 18:19 | 1 |
| Nitrite as N (EPA 353.2) | 0.045 | J H F1 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:26 | 1 |
| Cyanide, Total (SW846 9012B) | 0.017 | | 0.010 | 0.0041 | mg/L | | | 12/03/24 10:18 | 1 |
| Sulfate (ASTM D516-90, 02) | 27.7 | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:32 | 1 |
| Nitrate as N (SM Nitrate by calc) | 2.4 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:26 | 1 |
| Nitrate Nitrite as N (SM Nitrate by calc) | 2.4 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:26 | 1 |
| Total Alkalinity (SM 2320B) | 286 | F1 | 5.0 | 0.79 | mg/L | | | 11/27/24 16:28 | 1 |
| Total Organic Carbon (SM 5310D) | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 12:30 | 1 |

General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 17:08 | 1 |

Client Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW13
Date Collected: 11/25/24 16:00
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-5
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 11/28/24 08:01 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/28/24 08:01 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/28/24 08:01 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/28/24 08:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 77 - 120 | | | | | 11/28/24 08:01 | 1 |
| 4-Bromofluorobenzene (Surr) | 79 | | 73 - 120 | | | | | 11/28/24 08:01 | 1 |
| Dibromofluoromethane (Surr) | 93 | | 75 - 123 | | | | | 11/28/24 08:01 | 1 |
| Toluene-d8 (Surr) | 94 | | 80 - 120 | | | | | 11/28/24 08:01 | 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 | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Acenaphthylene | ND | | 5.0 | 0.38 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Anthracene | ND | | 5.0 | 0.28 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Benzo[a]anthracene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Benzo[a]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Benzo[b]fluoranthene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.0 | 0.35 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Benzo[k]fluoranthene | ND | | 5.0 | 0.73 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Chrysene | ND | | 5.0 | 0.33 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 0.42 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Fluoranthene | ND | | 5.0 | 0.40 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Fluorene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Naphthalene | ND | | 5.0 | 0.76 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Pyrene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 81 | | 53 - 126 | | | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| Nitrobenzene-d5 (Surr) | 70 | | 29 - 129 | | | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |
| p-Terphenyl-d14 (Surr) | 76 | | 33 - 132 | | | | 11/27/24 11:40 | 12/02/24 18:20 | 1 |

Method: RSK-175 - Dissolved Gases (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methane | ND | | 4.0 | 1.0 | ug/L | | | 12/02/24 12:23 | 1 |

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron | 0.035 | J | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 18:03 | 1 |
| Manganese | 0.013 | B | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:12 | 12/02/24 18:03 | 1 |

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron, Dissolved | ND | | 0.050 | 0.019 | mg/L | | 12/02/24 09:09 | 12/02/24 19:25 | 1 |
| Manganese, Dissolved | ND | | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:09 | 12/02/24 19:25 | 1 |

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Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW13
 Date Collected: 11/25/24 16:00
 Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-5
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---------------|-------------|-------|--------|------|---|----------|----------------|---------|
| Ammonia (EPA 350.1) | 0.22 | F2 B | 0.020 | 0.0090 | mg/L | | | 12/05/24 12:41 | 1 |
| Nitrite as N (EPA 353.2) | ND | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:19 | 1 |
| Cyanide, Total (SW846 9012B) | 0.0077 | J | 0.010 | 0.0041 | mg/L | | | 12/03/24 10:28 | 1 |
| Sulfate (ASTM D516-90, 02) | 26.9 | B | 5.0 | 1.5 | mg/L | | | 12/05/24 09:25 | 1 |
| Nitrate as N (SM Nitrate by calc) | 5.8 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:19 | 1 |
| Nitrate Nitrite as N (SM Nitrate by calc) | 5.8 | H | 0.050 | 0.020 | mg/L | | | 11/30/24 14:19 | 1 |
| Total Alkalinity (SM 2320B) | 256 | | 5.0 | 0.79 | mg/L | | | 11/27/24 18:38 | 1 |
| Total Organic Carbon (SM 5310D) | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 15:43 | 1 |

General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 19:53 | 1 |

Client Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: DUP112524

Lab Sample ID: 480-225829-6

Date Collected: 11/25/24 00:00

Matrix: Water

Date Received: 11/27/24 10:00

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 | | | 11/28/24 08:25 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/28/24 08:25 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/28/24 08:25 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/28/24 08:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 77 - 120 | | 11/28/24 08:25 | 1 |
| 4-Bromofluorobenzene (Surr) | 80 | | 73 - 120 | | 11/28/24 08:25 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 75 - 123 | | 11/28/24 08:25 | 1 |
| Toluene-d8 (Surr) | 95 | | 80 - 120 | | 11/28/24 08:25 | 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 | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Acenaphthylene | ND | | 5.0 | 0.38 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Anthracene | ND | | 5.0 | 0.28 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Benzo[a]anthracene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Benzo[a]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Benzo[b]fluoranthene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.0 | 0.35 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Benzo[k]fluoranthene | ND | | 5.0 | 0.73 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Chrysene | ND | | 5.0 | 0.33 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 0.42 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Fluoranthene | ND | | 5.0 | 0.40 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Fluorene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Naphthalene | ND | | 5.0 | 0.76 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Pyrene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 18:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 91 | | 53 - 126 | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| Nitrobenzene-d5 (Surr) | 77 | | 29 - 129 | 11/27/24 11:40 | 12/02/24 18:46 | 1 |
| p-Terphenyl-d14 (Surr) | 71 | | 33 - 132 | 11/27/24 11:40 | 12/02/24 18:46 | 1 |

Method: RSK-175 - Dissolved Gases (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methane | ND | | 4.0 | 1.0 | ug/L | | | 12/02/24 12:42 | 1 |

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron | 0.16 | | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 18:05 | 1 |
| Manganese | 0.022 | B | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:12 | 12/02/24 18:05 | 1 |

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron, Dissolved | 0.10 | | 0.050 | 0.019 | mg/L | | 12/05/24 14:53 | 12/06/24 14:20 | 1 |
| Manganese, Dissolved | 0.0085 | | 0.0030 | 0.00040 | mg/L | | 12/05/24 14:53 | 12/06/24 14:20 | 1 |

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Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: DUP112524

Lab Sample ID: 480-225829-6

Date Collected: 11/25/24 00:00

Matrix: Water

Date Received: 11/27/24 10:00

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Ammonia (EPA 350.1) | 0.58 | B | 0.020 | 0.0090 | mg/L | | | 12/05/24 12:43 | 1 |
| Nitrite as N (EPA 353.2) | ND | H H3 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:19 | 1 |
| Cyanide, Total (SW846 9012B) | 0.27 | | 0.010 | 0.0041 | mg/L | | | 12/03/24 10:31 | 1 |
| Sulfate (ASTM D516-90, 02) | 38.4 | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:29 | 1 |
| Nitrate as N (SM Nitrate by calc) | 3.0 | H H3 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:19 | 1 |
| Nitrate Nitrite as N (SM Nitrate by calc) | 3.0 | H H3 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:19 | 1 |
| Total Alkalinity (SM 2320B) | 315 | | 5.0 | 0.79 | mg/L | | | 11/27/24 18:45 | 1 |
| Total Organic Carbon (SM 5310D) | 0.90 | J | 1.0 | 0.43 | mg/L | | | 12/03/24 23:39 | 1 |

General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon (SM 5310C) | 0.86 | J | 1.0 | 0.43 | mg/L | | | 12/03/24 20:21 | 1 |

Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-225829-7

Date Collected: 11/25/24 00:00

Matrix: Water

Date Received: 11/27/24 10:00

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 | | | 11/28/24 08:50 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/28/24 08:50 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/28/24 08:50 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/28/24 08:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 77 - 120 | | 11/28/24 08:50 | 1 |
| 4-Bromofluorobenzene (Surr) | 75 | | 73 - 120 | | 11/28/24 08:50 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 75 - 123 | | 11/28/24 08:50 | 1 |
| Toluene-d8 (Surr) | 92 | | 80 - 120 | | 11/28/24 08:50 | 1 |

Client Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: FB112524

Lab Sample ID: 480-225829-8

Date Collected: 11/25/24 00:00

Matrix: Water

Date Received: 11/27/24 10:00

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 | | | 11/28/24 09:14 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/28/24 09:14 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/28/24 09:14 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/28/24 09:14 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 77 - 120 | | 11/28/24 09:14 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 73 - 120 | | 11/28/24 09:14 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 75 - 123 | | 11/28/24 09:14 | 1 |
| Toluene-d8 (Surr) | 92 | | 80 - 120 | | 11/28/24 09:14 | 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 | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Acenaphthylene | ND | | 5.0 | 0.38 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Anthracene | ND | | 5.0 | 0.28 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Benzo[a]anthracene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Benzo[a]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Benzo[b]fluoranthene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.0 | 0.35 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Benzo[k]fluoranthene | ND | | 5.0 | 0.73 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Chrysene | ND | | 5.0 | 0.33 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 0.42 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Fluoranthene | ND | | 5.0 | 0.40 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Fluorene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Naphthalene | ND | | 5.0 | 0.76 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Pyrene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 19:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 94 | | 53 - 126 | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| Nitrobenzene-d5 (Surr) | 80 | | 29 - 129 | 11/27/24 11:40 | 12/02/24 19:12 | 1 |
| p-Terphenyl-d14 (Surr) | 95 | | 33 - 132 | 11/27/24 11:40 | 12/02/24 19:12 | 1 |

Method: RSK-175 - Dissolved Gases (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Methane | ND | | 4.0 | 1.0 | ug/L | | | 12/02/24 13:01 | 1 |

Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron | ND | | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 18:07 | 1 |
| Manganese | ND | | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:12 | 12/02/24 18:07 | 1 |

Method: SW846 6010C - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Iron, Dissolved | ND | | 0.050 | 0.019 | mg/L | | 12/02/24 09:09 | 12/02/24 19:36 | 1 |
| Manganese, Dissolved | ND | | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:09 | 12/02/24 19:36 | 1 |

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Client Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: FB112524
Date Collected: 11/25/24 00:00
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-8
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------------|---------------|-------|--------|------|---|----------|----------------|---------|
| Ammonia (EPA 350.1) | 0.26 | B | 0.020 | 0.0090 | mg/L | | | 12/05/24 12:44 | 1 |
| Nitrite as N (EPA 353.2) | ND | H H3 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:20 | 1 |
| Cyanide, Total (SW846 9012B) | ND | | 0.010 | 0.0041 | mg/L | | | 12/03/24 10:34 | 1 |
| Sulfate (ASTM D516-90, 02) | ND | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:29 | 1 |
| Nitrate as N (SM Nitrate by calc) | 0.027 | J H H3 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:20 | 1 |
| Nitrate Nitrite as N (SM Nitrate by calc) | 0.027 | J H H3 | 0.050 | 0.020 | mg/L | | | 11/30/24 14:20 | 1 |
| Total Alkalinity (SM 2320B) | ND | | 5.0 | 0.79 | mg/L | | | 11/27/24 18:52 | 1 |
| Total Organic Carbon (SM 5310D) | ND | | 1.0 | 0.43 | mg/L | | | 12/04/24 00:35 | 1 |

General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon (SM 5310C) | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 20:49 | 1 |

Surrogate Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

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) |
| 480-225829-1 | MW6 | 103 | 87 | 98 | 98 |
| 480-225829-2 | MW7 | 104 | 87 | 100 | 97 |
| 480-225829-3 | MW8 | 99 | 86 | 99 | 97 |
| 480-225829-4 | MW12RR | 102 | 83 | 98 | 94 |
| 480-225829-4 MS | MW12RR-MS | 94 | 93 | 92 | 102 |
| 480-225829-4 MSD | MW12RR-MSD | 94 | 95 | 93 | 103 |
| 480-225829-5 | MW13 | 96 | 79 | 93 | 94 |
| 480-225829-6 | DUP112524 | 98 | 80 | 95 | 95 |
| 480-225829-7 | Trip Blank | 100 | 75 | 97 | 92 |
| 480-225829-8 | FB112524 | 100 | 83 | 100 | 92 |
| LCS 480-733821/6 | Lab Control Sample | 98 | 96 | 98 | 107 |
| LCS 480-733878/6 | Lab Control Sample | 92 | 93 | 91 | 100 |
| MB 480-733821/8 | Method Blank | 102 | 90 | 97 | 105 |
| MB 480-733878/8 | Method Blank | 96 | 82 | 90 | 95 |

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) |
| 480-225829-1 | MW6 | 93 | 79 | 80 |
| 480-225829-2 | MW7 | 99 | 86 | 88 |
| 480-225829-3 | MW8 | 86 | 74 | 85 |
| 480-225829-4 | MW12RR | 108 | 92 | 91 |
| 480-225829-4 MS | MW12RR-MS | 105 | 98 | 94 |
| 480-225829-4 MSD | MW12RR-MSD | 99 | 92 | 80 |
| 480-225829-5 | MW13 | 81 | 70 | 76 |
| 480-225829-6 | DUP112524 | 91 | 77 | 71 |
| 480-225829-8 | FB112524 | 94 | 80 | 95 |
| LCS 480-733866/2-A | Lab Control Sample | 84 | 81 | 97 |
| MB 480-733866/1-A | Method Blank | 82 | 71 | 96 |

Surrogate Legend

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

QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

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

Lab Sample ID: MB 480-733821/8
Matrix: Water
Analysis Batch: 733821

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 | | | 11/27/24 12:42 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/27/24 12:42 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/27/24 12:42 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/27/24 12:42 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 77 - 120 | | 11/27/24 12:42 | 1 |
| 4-Bromofluorobenzene (Surr) | 90 | | 73 - 120 | | 11/27/24 12:42 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 75 - 123 | | 11/27/24 12:42 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | 11/27/24 12:42 | 1 |

Lab Sample ID: LCS 480-733821/6
Matrix: Water
Analysis Batch: 733821

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 | 22.7 | | ug/L | | 91 | 71 - 124 |
| Ethylbenzene | 25.0 | 25.0 | | ug/L | | 100 | 77 - 123 |
| Toluene | 25.0 | 23.1 | | ug/L | | 92 | 80 - 122 |
| Xylenes, Total | 50.0 | 52.8 | | ug/L | | 106 | 76 - 122 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 98 | | 75 - 123 |
| Toluene-d8 (Surr) | 107 | | 80 - 120 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 733821

Client Sample ID: MW12RR-MS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Benzene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 71 - 124 |
| Ethylbenzene | ND | | 25.0 | 28.9 | | ug/L | | 116 | 77 - 123 |
| Toluene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 80 - 122 |
| Xylenes, Total | ND | | 50.0 | 60.1 | | ug/L | | 120 | 76 - 122 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|-----------------|-----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 93 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 92 | | 75 - 123 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 |

QC Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

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

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 733821

Client Sample ID: MW12RR-MSD
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 | 26.1 | | ug/L | | 104 | 71 - 124 | 1 | 13 |
| Ethylbenzene | ND | | 25.0 | 28.9 | | ug/L | | 116 | 77 - 123 | 0 | 15 |
| Toluene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 80 - 122 | 0 | 15 |
| Xylenes, Total | ND | | 50.0 | 61.0 | | ug/L | | 122 | 76 - 122 | 1 | 16 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 93 | | 75 - 123 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 |

Lab Sample ID: MB 480-733878/8
Matrix: Water
Analysis Batch: 733878

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 | | | 11/28/24 01:04 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 11/28/24 01:04 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 11/28/24 01:04 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 11/28/24 01:04 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 77 - 120 | | 11/28/24 01:04 | 1 |
| 4-Bromofluorobenzene (Surr) | 82 | | 73 - 120 | | 11/28/24 01:04 | 1 |
| Dibromofluoromethane (Surr) | 90 | | 75 - 123 | | 11/28/24 01:04 | 1 |
| Toluene-d8 (Surr) | 95 | | 80 - 120 | | 11/28/24 01:04 | 1 |

Lab Sample ID: LCS 480-733878/6
Matrix: Water
Analysis Batch: 733878

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 | 22.0 | | ug/L | | 88 | 71 - 124 |
| Ethylbenzene | 25.0 | 24.1 | | ug/L | | 97 | 77 - 123 |
| Toluene | 25.0 | 22.7 | | ug/L | | 91 | 80 - 122 |
| Xylenes, Total | 50.0 | 51.0 | | ug/L | | 102 | 76 - 122 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 93 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 91 | | 75 - 123 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

QC Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

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

Lab Sample ID: MB 480-733866/1-A
Matrix: Water
Analysis Batch: 733985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733866

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Acenaphthene | ND | | 5.0 | 0.41 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Acenaphthylene | ND | | 5.0 | 0.38 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Anthracene | ND | | 5.0 | 0.28 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Benzo[a]anthracene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Benzo[a]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Benzo[b]fluoranthene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.0 | 0.35 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Benzo[k]fluoranthene | ND | | 5.0 | 0.73 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Chrysene | ND | | 5.0 | 0.33 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.0 | 0.42 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Fluoranthene | ND | | 5.0 | 0.40 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Fluorene | ND | | 5.0 | 0.36 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | 0.47 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Naphthalene | ND | | 5.0 | 0.76 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Phenanthrene | ND | | 5.0 | 0.44 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Pyrene | ND | | 5.0 | 0.34 | ug/L | | 11/27/24 11:40 | 12/02/24 14:24 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 2-Fluorobiphenyl (Surr) | 82 | | 53 - 126 | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| Nitrobenzene-d5 (Surr) | 71 | | 29 - 129 | 11/27/24 11:40 | 12/02/24 14:24 | 1 |
| p-Terphenyl-d14 (Surr) | 96 | | 33 - 132 | 11/27/24 11:40 | 12/02/24 14:24 | 1 |

Lab Sample ID: LCS 480-733866/2-A
Matrix: Water
Analysis Batch: 733985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733866

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec |
|------------------------|-------------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| Acenaphthene | 32.0 | 27.3 | | ug/L | | 85 | 60 - 120 |
| Acenaphthylene | 32.0 | 29.1 | | ug/L | | 91 | 63 - 120 |
| Anthracene | 32.0 | 29.5 | | ug/L | | 92 | 67 - 120 |
| Benzo[a]anthracene | 32.0 | 29.6 | | ug/L | | 93 | 70 - 121 |
| Benzo[a]pyrene | 32.0 | 30.1 | | ug/L | | 94 | 60 - 123 |
| Benzo[b]fluoranthene | 32.0 | 28.3 | | ug/L | | 89 | 66 - 126 |
| Benzo[g,h,i]perylene | 32.0 | 33.7 | | ug/L | | 105 | 66 - 150 |
| Benzo[k]fluoranthene | 32.0 | 30.6 | | ug/L | | 96 | 65 - 124 |
| Chrysene | 32.0 | 29.3 | | ug/L | | 92 | 69 - 120 |
| Dibenz(a,h)anthracene | 32.0 | 34.0 | | ug/L | | 106 | 65 - 135 |
| Fluoranthene | 32.0 | 32.1 | | ug/L | | 100 | 69 - 126 |
| Fluorene | 32.0 | 28.8 | | ug/L | | 90 | 66 - 120 |
| Indeno[1,2,3-cd]pyrene | 32.0 | 33.2 | | ug/L | | 104 | 69 - 146 |
| Naphthalene | 32.0 | 24.8 | | ug/L | | 77 | 57 - 120 |
| Phenanthrene | 32.0 | 28.2 | | ug/L | | 88 | 68 - 120 |
| Pyrene | 32.0 | 29.7 | | ug/L | | 93 | 70 - 125 |

| Surrogate | LCS | LCS | Limits |
|-------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorobiphenyl (Surr) | 84 | | 53 - 126 |
| Nitrobenzene-d5 (Surr) | 81 | | 29 - 129 |
| p-Terphenyl-d14 (Surr) | 97 | | 33 - 132 |

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QC Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

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

Lab Sample ID: 480-225829-4 MS

Matrix: Water

Analysis Batch: 734816

Client Sample ID: MW12RR-MS

Prep Type: Total/NA

Prep Batch: 733866

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec | Limits |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Acenaphthene | ND | | 32.0 | 35.6 | | ug/L | | 111 | | 48 - 120 |
| Acenaphthylene | ND | | 32.0 | 36.0 | | ug/L | | 113 | | 63 - 120 |
| Anthracene | ND | | 32.0 | 37.0 | | ug/L | | 116 | | 65 - 122 |
| Benzo[a]anthracene | ND | | 32.0 | 37.6 | | ug/L | | 117 | | 43 - 124 |
| Benzo[a]pyrene | ND | | 32.0 | 34.6 | | ug/L | | 108 | | 23 - 125 |
| Benzo[b]fluoranthene | ND | | 32.0 | 34.9 | | ug/L | | 109 | | 27 - 127 |
| Benzo[g,h,i]perylene | ND | | 32.0 | 36.8 | | ug/L | | 115 | | 16 - 147 |
| Benzo[k]fluoranthene | ND | | 32.0 | 35.8 | | ug/L | | 112 | | 20 - 124 |
| Chrysene | ND | F2 | 32.0 | 37.8 | | ug/L | | 118 | | 44 - 122 |
| Dibenz(a,h)anthracene | ND | | 32.0 | 36.1 | | ug/L | | 113 | | 16 - 139 |
| Fluoranthene | ND | | 32.0 | 39.8 | | ug/L | | 124 | | 63 - 129 |
| Fluorene | ND | | 32.0 | 37.2 | | ug/L | | 116 | | 62 - 120 |
| Indeno[1,2,3-cd]pyrene | ND | | 32.0 | 36.1 | | ug/L | | 113 | | 16 - 140 |
| Naphthalene | ND | | 32.0 | 31.7 | | ug/L | | 99 | | 45 - 120 |
| Phenanthrene | ND | | 32.0 | 38.1 | | ug/L | | 119 | | 65 - 122 |
| Pyrene | ND | | 32.0 | 38.4 | | ug/L | | 120 | | 58 - 128 |

| Surrogate | MS | MS | Limits |
|-------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorobiphenyl (Surr) | 105 | | 53 - 126 |
| Nitrobenzene-d5 (Surr) | 98 | | 29 - 129 |
| p-Terphenyl-d14 (Surr) | 94 | | 33 - 132 |

Lab Sample ID: 480-225829-4 MSD

Matrix: Water

Analysis Batch: 734816

Client Sample ID: MW12RR-MSD

Prep Type: Total/NA

Prep Batch: 733866

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | Limits | RPD | Limit |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | | |
| Acenaphthene | ND | | 32.0 | 33.0 | | ug/L | | 103 | | 48 - 120 | 8 | 24 |
| Acenaphthylene | ND | | 32.0 | 33.6 | | ug/L | | 105 | | 63 - 120 | 7 | 18 |
| Anthracene | ND | | 32.0 | 35.0 | | ug/L | | 109 | | 65 - 122 | 5 | 15 |
| Benzo[a]anthracene | ND | | 32.0 | 33.5 | | ug/L | | 105 | | 43 - 124 | 12 | 15 |
| Benzo[a]pyrene | ND | | 32.0 | 33.0 | | ug/L | | 103 | | 23 - 125 | 5 | 15 |
| Benzo[b]fluoranthene | ND | | 32.0 | 31.7 | | ug/L | | 99 | | 27 - 127 | 10 | 15 |
| Benzo[g,h,i]perylene | ND | | 32.0 | 34.3 | | ug/L | | 107 | | 16 - 147 | 7 | 15 |
| Benzo[k]fluoranthene | ND | | 32.0 | 34.7 | | ug/L | | 109 | | 20 - 124 | 3 | 22 |
| Chrysene | ND | F2 | 32.0 | 31.8 | F2 | ug/L | | 99 | | 44 - 122 | 17 | 15 |
| Dibenz(a,h)anthracene | ND | | 32.0 | 33.4 | | ug/L | | 104 | | 16 - 139 | 8 | 15 |
| Fluoranthene | ND | | 32.0 | 36.3 | | ug/L | | 114 | | 63 - 129 | 9 | 15 |
| Fluorene | ND | | 32.0 | 34.9 | | ug/L | | 109 | | 62 - 120 | 6 | 15 |
| Indeno[1,2,3-cd]pyrene | ND | | 32.0 | 33.9 | | ug/L | | 106 | | 16 - 140 | 6 | 15 |
| Naphthalene | ND | | 32.0 | 30.0 | | ug/L | | 94 | | 45 - 120 | 5 | 29 |
| Phenanthrene | ND | | 32.0 | 34.6 | | ug/L | | 108 | | 65 - 122 | 10 | 15 |
| Pyrene | ND | | 32.0 | 33.9 | | ug/L | | 106 | | 58 - 128 | 12 | 19 |

| Surrogate | MSD | MSD | Limits |
|-------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorobiphenyl (Surr) | 99 | | 53 - 126 |
| Nitrobenzene-d5 (Surr) | 92 | | 29 - 129 |
| p-Terphenyl-d14 (Surr) | 80 | | 33 - 132 |

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QC Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-733966/4
Matrix: Water
Analysis Batch: 733966

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Methane | ND | | 4.0 | 1.0 | ug/L | | | 12/02/24 08:08 | 1 |

Lab Sample ID: LCS 480-733966/5
Matrix: Water
Analysis Batch: 733966

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Methane | 19.5 | 22.9 | | ug/L | | 117 | 85 - 120 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 733966

Client Sample ID: MW12RR-MS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Methane | ND | | 19.5 | 20.1 | | ug/L | | 103 | 38 - 150 |

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 733966

Client Sample ID: MW12RR-MSD
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| Methane | ND | | 19.5 | 20.9 | | ug/L | | 107 | 38 - 150 | 4 | 50 |

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-733897/1-A
Matrix: Water
Analysis Batch: 734099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733897

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| Iron | ND | | 0.050 | 0.019 | mg/L | | 12/02/24 09:12 | 12/02/24 17:17 | 1 |

Lab Sample ID: LCS 480-733897/2-A
Matrix: Water
Analysis Batch: 734099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733897

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Iron | 5.10 | 5.46 | | mg/L | | 107 | 80 - 120 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 734099

Client Sample ID: MW12RR-MS
Prep Type: Total/NA
Prep Batch: 733897

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Iron | 0.020 | J | 5.10 | 5.43 | | mg/L | | 106 | 75 - 125 |
| Manganese | 0.22 | B | 0.498 | 0.734 | | mg/L | | 103 | 75 - 125 |

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QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 734099

Client Sample ID: MW12RR-MSD
Prep Type: Total/NA
Prep Batch: 733897

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|-----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | | Result | Qualifier | | | | Limits | | |
| Iron | 0.020 | J | 5.10 | 5.43 | | mg/L | | 106 | 75 - 125 | 0 | 20 |
| Manganese | 0.22 | B | 0.498 | 0.752 | | mg/L | | 107 | 75 - 125 | 2 | 20 |

Lab Sample ID: MB 480-733903/1-A
Matrix: Water
Analysis Batch: 734228

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 733903

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|---------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron, Dissolved | 0.289 | | 0.050 | 0.019 | mg/L | | 12/02/24 09:09 | 12/03/24 20:46 | 1 |
| Manganese, Dissolved | 0.00192 | J | 0.0030 | 0.00040 | mg/L | | 12/02/24 09:09 | 12/03/24 20:46 | 1 |

Lab Sample ID: MB 480-734428/1-A
Matrix: Water
Analysis Batch: 734608

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734428

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron, Dissolved | ND | | 0.050 | 0.019 | mg/L | | 12/06/24 08:54 | 12/06/24 14:47 | 1 |
| Manganese, Dissolved | ND | | 0.0030 | 0.00040 | mg/L | | 12/06/24 08:54 | 12/06/24 14:47 | 1 |

Lab Sample ID: LCS 480-734428/2-A
Matrix: Water
Analysis Batch: 734608

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734428

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|----------------------|-------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | Limits |
| Iron, Dissolved | 5.10 | 5.64 | | mg/L | | 111 | 80 - 120 |
| Manganese, Dissolved | 0.498 | 0.491 | | mg/L | | 99 | 80 - 120 |

Lab Sample ID: MB 480-734440/1-A
Matrix: Water
Analysis Batch: 734592

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734440

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Iron, Dissolved | ND | | 0.050 | 0.019 | mg/L | | 12/05/24 14:53 | 12/06/24 14:16 | 1 |
| Manganese, Dissolved | ND | | 0.0030 | 0.00040 | mg/L | | 12/05/24 14:53 | 12/06/24 14:16 | 1 |

Lab Sample ID: LCS 480-734440/2-A
Matrix: Water
Analysis Batch: 734592

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734440

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|----------------------|-------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | Limits |
| Iron, Dissolved | 5.10 | 5.57 | | mg/L | | 109 | 80 - 120 |
| Manganese, Dissolved | 0.498 | 0.486 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 734103

Client Sample ID: MW12RR-MS
Prep Type: Dissolved
Prep Batch: 733903

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|----------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | | Result | Qualifier | | | | Limits |
| Iron, Dissolved | ND | | 5.10 | 5.63 | | mg/L | | 110 | 75 - 125 |
| Manganese, Dissolved | 0.21 | B | 0.498 | 0.715 | | mg/L | | 101 | 75 - 125 |

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QC Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: 6010C - Metals (ICP)

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 734103

Client Sample ID: MW12RR-MSD
Prep Type: Dissolved
Prep Batch: 733903

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|----------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Iron, Dissolved | ND | | 5.10 | 5.53 | | mg/L | | 109 | 75 - 125 | 2 | 20 |
| Manganese, Dissolved | 0.21 | B | 0.498 | 0.705 | | mg/L | | 99 | 75 - 125 | 2 | 20 |

Lab Sample ID: 480-225829-6 MS
Matrix: Water
Analysis Batch: 734592

Client Sample ID: DUP112524
Prep Type: Dissolved
Prep Batch: 734440

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec | RPD | Limit |
|----------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Iron, Dissolved | 0.10 | | 5.10 | 5.57 | | mg/L | | 107 | 75 - 125 | | |
| Manganese, Dissolved | 0.0085 | | 0.498 | 0.482 | | mg/L | | 95 | 75 - 125 | | |

Lab Sample ID: 480-225829-6 MSD
Matrix: Water
Analysis Batch: 734592

Client Sample ID: DUP112524
Prep Type: Dissolved
Prep Batch: 734440

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|----------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Iron, Dissolved | 0.10 | | 5.10 | 5.57 | | mg/L | | 107 | 75 - 125 | 0 | 20 |
| Manganese, Dissolved | 0.0085 | | 0.498 | 0.479 | | mg/L | | 94 | 75 - 125 | 1 | 20 |

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-734461/64
Matrix: Water
Analysis Batch: 734461

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Ammonia | 0.0110 | J | 0.020 | 0.0090 | mg/L | | | 12/04/24 17:37 | 1 |

Lab Sample ID: MB 480-734461/83
Matrix: Water
Analysis Batch: 734461

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Ammonia | 0.0120 | J | 0.020 | 0.0090 | mg/L | | | 12/04/24 18:17 | 1 |

Lab Sample ID: LCS 480-734461/65
Matrix: Water
Analysis Batch: 734461

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

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec | Limit |
|---------|-------|--------|-----------|------|---|------|----------|-------|
| | Added | Result | Qualifier | | | | Limits | |
| Ammonia | 1.00 | 0.953 | | mg/L | | 95 | 90 - 110 | |

Lab Sample ID: LCS 480-734461/84
Matrix: Water
Analysis Batch: 734461

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

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec | Limit |
|---------|-------|--------|-----------|------|---|------|----------|-------|
| | Added | Result | Qualifier | | | | Limits | |
| Ammonia | 1.00 | 0.943 | | mg/L | | 94 | 90 - 110 | |

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QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 734461

Client Sample ID: MW12RR-MS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Ammonia | 0.43 | B | 0.0400 | 0.200 | 4 | mg/L | | -583 | 90 - 110 |

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 734461

Client Sample ID: MW12RR-MSD
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Ammonia | 0.43 | B | 0.0400 | 0.192 | 4 | mg/L | | -603 | 90 - 110 | 4 | 20 |

Lab Sample ID: MB 480-734462/65
Matrix: Water
Analysis Batch: 734462

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Ammonia | 0.0120 | J | 0.020 | 0.0090 | mg/L | | | 12/05/24 12:07 | 1 |

Lab Sample ID: LCS 480-734462/66
Matrix: Water
Analysis Batch: 734462

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Ammonia | 1.00 | 0.940 | | mg/L | | 94 | 90 - 110 |

Lab Sample ID: 480-225829-5 MS
Matrix: Water
Analysis Batch: 734462

Client Sample ID: MW13
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Ammonia | 0.22 | F2 B | 0.0400 | 0.234 | 4 | mg/L | | 43 | 90 - 110 |

Lab Sample ID: 480-225829-5 MSD
Matrix: Water
Analysis Batch: 734462

Client Sample ID: MW13
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Ammonia | 0.22 | F2 B | 0.0400 | 0.292 | 4 F2 | mg/L | | 188 | 90 - 110 | 22 | 20 |

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-733962/26
Matrix: Water
Analysis Batch: 733962

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|-----------|--------------|-------|-------|------|---|----------|----------------|---------|
| Nitrite as N | ND | | 0.050 | 0.020 | mg/L | | | 11/30/24 14:16 | 1 |

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QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 480-733962/47
Matrix: Water
Analysis Batch: 733962

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|-----------|--------------|-------|-------|------|---|----------|----------------|---------|
| Nitrite as N | ND | | 0.050 | 0.020 | mg/L | | | 11/30/24 14:25 | 1 |

Lab Sample ID: MB 480-733962/5
Matrix: Water
Analysis Batch: 733962

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|-----------|--------------|-------|-------|------|---|----------|----------------|---------|
| Nitrite as N | ND | | 0.050 | 0.020 | mg/L | | | 11/27/24 21:45 | 1 |

Lab Sample ID: LCS 480-733962/27
Matrix: Water
Analysis Batch: 733962

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Nitrite as N | 1.50 | 1.42 | | mg/L | | 94 | 90 - 110 |

Lab Sample ID: LCS 480-733962/48
Matrix: Water
Analysis Batch: 733962

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Nitrite as N | 1.50 | 1.47 | | mg/L | | 98 | 90 - 110 |

Lab Sample ID: LCS 480-733962/6
Matrix: Water
Analysis Batch: 733962

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Nitrite as N | 1.50 | 1.64 | | mg/L | | 109 | 90 - 110 |

Lab Sample ID: 480-225829-2 MS
Matrix: Water
Analysis Batch: 733962

Client Sample ID: MW7
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Nitrite as N | 0.026 | J H F1 | 0.998 | 0.728 | F1 | mg/L | | 70 | 90 - 110 |

Lab Sample ID: 480-225829-2 MSD
Matrix: Water
Analysis Batch: 733962

Client Sample ID: MW7
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Nitrite as N | 0.026 | J H F1 | 0.998 | 0.750 | F1 | mg/L | | 73 | 90 - 110 | 3 | 20 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 733962

Client Sample ID: MW12RR-MS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Nitrite as N | 0.045 | J H F1 | 0.998 | 0.750 | H F1 | mg/L | | 71 | 90 - 110 |

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QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: 480-225829-4 MSD
 Matrix: Water
 Analysis Batch: 733962

Client Sample ID: MW12RR-MSD
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Nitrite as N | 0.045 | J H F1 | 0.998 | 0.747 | H F1 | mg/L | | 70 | 90 - 110 | 0 | 20 |

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

Lab Sample ID: MB 480-734120/47
 Matrix: Water
 Analysis Batch: 734120

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 | | | 12/03/24 09:19 | 1 |

Lab Sample ID: MB 480-734120/75
 Matrix: Water
 Analysis Batch: 734120

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 | | | 12/03/24 10:52 | 1 |

Lab Sample ID: HLCS 480-734120/22
 Matrix: Water
 Analysis Batch: 734120

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 | 0.401 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: LCS 480-734120/48
 Matrix: Water
 Analysis Batch: 734120

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 | 0.245 | | mg/L | | 98 | 90 - 110 |

Lab Sample ID: LCS 480-734120/76
 Matrix: Water
 Analysis Batch: 734120

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 | 0.252 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: 480-225829-4 MS
 Matrix: Water
 Analysis Batch: 734120

Client Sample ID: MW12RR-MS
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Cyanide, Total | 0.017 | | 0.100 | 0.110 | | mg/L | | 94 | 90 - 110 |

QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

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

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 734120

Client Sample ID: MW12RR-MSD
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 | 0.017 | | 0.100 | 0.115 | | mg/L | | 99 | 90 - 110 | 4 | 15 |

Method: D516-90, 02 - Sulfate

Lab Sample ID: MB 480-734415/33
Matrix: Water
Analysis Batch: 734415

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | 1.51 | J | 5.0 | 1.5 | mg/L | | | 12/05/24 09:19 | 1 |

Lab Sample ID: MB 480-734415/41
Matrix: Water
Analysis Batch: 734415

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | 1.72 | J | 5.0 | 1.5 | mg/L | | | 12/05/24 09:24 | 1 |

Lab Sample ID: MB 480-734415/49
Matrix: Water
Analysis Batch: 734415

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:27 | 1 |

Lab Sample ID: MB 480-734415/57
Matrix: Water
Analysis Batch: 734415

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:30 | 1 |

Lab Sample ID: MB 480-734415/71
Matrix: Water
Analysis Batch: 734415

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:35 | 1 |

Lab Sample ID: MB 480-734415/79
Matrix: Water
Analysis Batch: 734415

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:38 | 1 |

QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: D516-90, 02 - Sulfate (Continued)

Lab Sample ID: MB 480-734415/86
Matrix: Water
Analysis Batch: 734415

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | ND | | 5.0 | 1.5 | mg/L | | | 12/05/24 09:40 | 1 |

Lab Sample ID: LCS 480-734415/40
Matrix: Water
Analysis Batch: 734415

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Sulfate | 30.0 | 30.20 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: LCS 480-734415/48
Matrix: Water
Analysis Batch: 734415

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Sulfate | 30.0 | 30.35 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: LCS 480-734415/56
Matrix: Water
Analysis Batch: 734415

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Sulfate | 30.0 | 30.42 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: LCS 480-734415/78
Matrix: Water
Analysis Batch: 734415

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Sulfate | 30.0 | 30.48 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: LCS 480-734415/85
Matrix: Water
Analysis Batch: 734415

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Sulfate | 30.0 | 30.52 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 734415

Client Sample ID: MW12RR-MS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Sulfate | 27.7 | | 20.0 | 42.75 | | mg/L | | 75 | 60 - 128 |

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 734415

Client Sample ID: MW12RR-MSD
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Sulfate | 27.7 | | 20.0 | 41.94 | | mg/L | | 71 | 60 - 128 | 2 | 20 |

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QC Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-733959/28
Matrix: Water
Analysis Batch: 733959

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Total Alkalinity | ND | | 5.0 | 0.79 | mg/L | | | 11/27/24 19:35 | 1 |

Lab Sample ID: MB 480-733959/4
Matrix: Water
Analysis Batch: 733959

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Total Alkalinity | ND | | 5.0 | 0.79 | mg/L | | | 11/27/24 16:12 | 1 |

Lab Sample ID: LCS 480-733959/29
Matrix: Water
Analysis Batch: 733959

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity | 92.3 | 89.68 | | mg/L | | 97 | 90 - 110 |

Lab Sample ID: LCS 480-733959/5
Matrix: Water
Analysis Batch: 733959

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity | 92.3 | 92.08 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 733959

Client Sample ID: MW12RR-MS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Total Alkalinity | 286 | F1 | 148 | 348.1 | F1 | mg/L | | 42 | 60 - 140 |

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 733959

Client Sample ID: MW12RR-MSD
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Total Alkalinity | 286 | F1 | 148 | 348.7 | F1 | mg/L | | 42 | 60 - 140 | 0 | 20 |

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 734297

Client Sample ID: MW12RR-MS
Prep Type: Dissolved

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Dissolved Organic Carbon | ND | | 23.3 | 24.46 | | mg/L | | 105 | 54 - 131 |

QC Sample Results

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 734297

Client Sample ID: MW12RR-MSD
Prep Type: Dissolved

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Dissolved Organic Carbon | ND | | 23.3 | 24.53 | | mg/L | | 105 | 54 - 131 | 0 | 20 |

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-734296/28
Matrix: Water
Analysis Batch: 734296

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 22:43 | 1 |

Lab Sample ID: MB 480-734296/4
Matrix: Water
Analysis Batch: 734296

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Total Organic Carbon | ND | | 1.0 | 0.43 | mg/L | | | 12/03/24 11:33 | 1 |

Lab Sample ID: LCS 480-734296/29
Matrix: Water
Analysis Batch: 734296

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Organic Carbon | 60.0 | 60.96 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: LCS 480-734296/5
Matrix: Water
Analysis Batch: 734296

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Organic Carbon | 60.0 | 61.71 | | mg/L | | 103 | 90 - 110 |

Lab Sample ID: 480-225829-4 MS
Matrix: Water
Analysis Batch: 734296

Client Sample ID: MW12RR-MS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Total Organic Carbon | ND | | 23.3 | 25.02 | | mg/L | | 108 | 54 - 131 |

Lab Sample ID: 480-225829-4 MSD
Matrix: Water
Analysis Batch: 734296

Client Sample ID: MW12RR-MSD
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Total Organic Carbon | ND | | 23.3 | 24.70 | | mg/L | | 106 | 54 - 131 | 1 | 20 |

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QC Sample Results

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-225829-6 MS
Matrix: Water
Analysis Batch: 734296

Client Sample ID: DUP112524
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Total Organic Carbon | 0.90 | J | 23.3 | 24.53 | | mg/L | | 102 | 54 - 131 |

Lab Sample ID: 480-225829-8 DU
Matrix: Water
Analysis Batch: 734296

Client Sample ID: FB112524
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Organic Carbon | ND | | ND | | mg/L | | NC | 20 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

GC/MS VOA

Analysis Batch: 733821

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 8260C | |
| 480-225829-2 | MW7 | Total/NA | Water | 8260C | |
| 480-225829-3 | MW8 | Total/NA | Water | 8260C | |
| 480-225829-4 | MW12RR | Total/NA | Water | 8260C | |
| MB 480-733821/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-733821/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 8260C | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 8260C | |

Analysis Batch: 733878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-5 | MW13 | Total/NA | Water | 8260C | |
| 480-225829-6 | DUP112524 | Total/NA | Water | 8260C | |
| 480-225829-7 | Trip Blank | Total/NA | Water | 8260C | |
| 480-225829-8 | FB112524 | Total/NA | Water | 8260C | |
| MB 480-733878/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-733878/6 | Lab Control Sample | Total/NA | Water | 8260C | |

GC/MS Semi VOA

Prep Batch: 733866

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 3510C | |
| 480-225829-2 | MW7 | Total/NA | Water | 3510C | |
| 480-225829-3 | MW8 | Total/NA | Water | 3510C | |
| 480-225829-4 | MW12RR | Total/NA | Water | 3510C | |
| 480-225829-5 | MW13 | Total/NA | Water | 3510C | |
| 480-225829-6 | DUP112524 | Total/NA | Water | 3510C | |
| 480-225829-8 | FB112524 | Total/NA | Water | 3510C | |
| MB 480-733866/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 480-733866/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 3510C | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 3510C | |

Analysis Batch: 733985

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 8270D | 733866 |
| 480-225829-2 | MW7 | Total/NA | Water | 8270D | 733866 |
| 480-225829-3 | MW8 | Total/NA | Water | 8270D | 733866 |
| 480-225829-5 | MW13 | Total/NA | Water | 8270D | 733866 |
| 480-225829-6 | DUP112524 | Total/NA | Water | 8270D | 733866 |
| 480-225829-8 | FB112524 | Total/NA | Water | 8270D | 733866 |
| MB 480-733866/1-A | Method Blank | Total/NA | Water | 8270D | 733866 |
| LCS 480-733866/2-A | Lab Control Sample | Total/NA | Water | 8270D | 733866 |

Analysis Batch: 734816

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 480-225829-4 | MW12RR | Total/NA | Water | 8270D | 733866 |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 8270D | 733866 |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 8270D | 733866 |

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QC Association Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

GC VOA

Analysis Batch: 733966

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | RSK-175 | |
| 480-225829-2 | MW7 | Total/NA | Water | RSK-175 | |
| 480-225829-3 | MW8 | Total/NA | Water | RSK-175 | |
| 480-225829-4 | MW12RR | Total/NA | Water | RSK-175 | |
| 480-225829-5 | MW13 | Total/NA | Water | RSK-175 | |
| 480-225829-6 | DUP112524 | Total/NA | Water | RSK-175 | |
| 480-225829-8 | FB112524 | Total/NA | Water | RSK-175 | |
| MB 480-733966/4 | Method Blank | Total/NA | Water | RSK-175 | |
| LCS 480-733966/5 | Lab Control Sample | Total/NA | Water | RSK-175 | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | RSK-175 | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | RSK-175 | |

Metals

Prep Batch: 733897

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 3005A | |
| 480-225829-2 | MW7 | Total/NA | Water | 3005A | |
| 480-225829-3 | MW8 | Total/NA | Water | 3005A | |
| 480-225829-4 | MW12RR | Total/NA | Water | 3005A | |
| 480-225829-5 | MW13 | Total/NA | Water | 3005A | |
| 480-225829-6 | DUP112524 | Total/NA | Water | 3005A | |
| 480-225829-8 | FB112524 | Total/NA | Water | 3005A | |
| MB 480-733897/1-A | Method Blank | Total/NA | Water | 3005A | |
| LCS 480-733897/2-A | Lab Control Sample | Total/NA | Water | 3005A | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 3005A | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 3005A | |

Prep Batch: 733903

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-------------------|--------|--------|------------|
| 480-225829-1 | MW6 | Dissolved | Water | 3005A | |
| 480-225829-3 | MW8 | Dissolved | Water | 3005A | |
| 480-225829-4 | MW12RR | Dissolved | Water | 3005A | |
| 480-225829-5 | MW13 | Dissolved | Water | 3005A | |
| 480-225829-8 | FB112524 | Dissolved | Water | 3005A | |
| MB 480-733903/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| 480-225829-4 MS | MW12RR-MS | Dissolved | Water | 3005A | |
| 480-225829-4 MSD | MW12RR-MSD | Dissolved | Water | 3005A | |

Analysis Batch: 734099

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 6010C | 733897 |
| 480-225829-2 | MW7 | Total/NA | Water | 6010C | 733897 |
| 480-225829-3 | MW8 | Total/NA | Water | 6010C | 733897 |
| 480-225829-4 | MW12RR | Total/NA | Water | 6010C | 733897 |
| 480-225829-5 | MW13 | Total/NA | Water | 6010C | 733897 |
| 480-225829-6 | DUP112524 | Total/NA | Water | 6010C | 733897 |
| 480-225829-8 | FB112524 | Total/NA | Water | 6010C | 733897 |
| MB 480-733897/1-A | Method Blank | Total/NA | Water | 6010C | 733897 |
| LCS 480-733897/2-A | Lab Control Sample | Total/NA | Water | 6010C | 733897 |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 6010C | 733897 |

Eurofins Buffalo

QC Association Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Metals (Continued)

Analysis Batch: 734099 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 6010C | 733897 |

Analysis Batch: 734103

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Dissolved | Water | 6010C | 733903 |
| 480-225829-3 | MW8 | Dissolved | Water | 6010C | 733903 |
| 480-225829-4 | MW12RR | Dissolved | Water | 6010C | 733903 |
| 480-225829-5 | MW13 | Dissolved | Water | 6010C | 733903 |
| 480-225829-8 | FB112524 | Dissolved | Water | 6010C | 733903 |
| 480-225829-4 MS | MW12RR-MS | Dissolved | Water | 6010C | 733903 |
| 480-225829-4 MSD | MW12RR-MSD | Dissolved | Water | 6010C | 733903 |

Analysis Batch: 734228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-------------------|--------|--------|------------|
| MB 480-733903/1-A | Method Blank | Total Recoverable | Water | 6010C | 733903 |

Prep Batch: 734428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-225829-1 | MW6 | Dissolved | Water | 3005A | |
| 480-225829-2 | MW7 | Dissolved | Water | 3005A | |
| 480-225829-3 | MW8 | Dissolved | Water | 3005A | |
| MB 480-734428/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 480-734428/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Prep Batch: 734440

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-225829-6 | DUP112524 | Dissolved | Water | 3005A | |
| MB 480-734440/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 480-734440/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 480-225829-6 MS | DUP112524 | Dissolved | Water | 3005A | |
| 480-225829-6 MSD | DUP112524 | Dissolved | Water | 3005A | |

Analysis Batch: 734592

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-225829-6 | DUP112524 | Dissolved | Water | 6010C | 734440 |
| MB 480-734440/1-A | Method Blank | Total Recoverable | Water | 6010C | 734440 |
| LCS 480-734440/2-A | Lab Control Sample | Total Recoverable | Water | 6010C | 734440 |
| 480-225829-6 MS | DUP112524 | Dissolved | Water | 6010C | 734440 |
| 480-225829-6 MSD | DUP112524 | Dissolved | Water | 6010C | 734440 |

Analysis Batch: 734608

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 480-225829-1 | MW6 | Dissolved | Water | 6010C | 734428 |
| 480-225829-2 | MW7 | Dissolved | Water | 6010C | 734428 |
| 480-225829-3 | MW8 | Dissolved | Water | 6010C | 734428 |
| MB 480-734428/1-A | Method Blank | Total Recoverable | Water | 6010C | 734428 |
| LCS 480-734428/2-A | Lab Control Sample | Total Recoverable | Water | 6010C | 734428 |

Eurofins Buffalo

QC Association Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

General Chemistry

Analysis Batch: 733959

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | SM 2320B | |
| 480-225829-2 | MW7 | Total/NA | Water | SM 2320B | |
| 480-225829-3 | MW8 | Total/NA | Water | SM 2320B | |
| 480-225829-4 | MW12RR | Total/NA | Water | SM 2320B | |
| 480-225829-5 | MW13 | Total/NA | Water | SM 2320B | |
| 480-225829-6 | DUP112524 | Total/NA | Water | SM 2320B | |
| 480-225829-8 | FB112524 | Total/NA | Water | SM 2320B | |
| MB 480-733959/28 | Method Blank | Total/NA | Water | SM 2320B | |
| MB 480-733959/4 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 480-733959/29 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| LCS 480-733959/5 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | SM 2320B | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | SM 2320B | |

Analysis Batch: 733962

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 353.2 | |
| 480-225829-2 | MW7 | Total/NA | Water | 353.2 | |
| 480-225829-3 | MW8 | Total/NA | Water | 353.2 | |
| 480-225829-4 | MW12RR | Total/NA | Water | 353.2 | |
| 480-225829-5 | MW13 | Total/NA | Water | 353.2 | |
| 480-225829-6 | DUP112524 | Total/NA | Water | 353.2 | |
| 480-225829-8 | FB112524 | Total/NA | Water | 353.2 | |
| MB 480-733962/26 | Method Blank | Total/NA | Water | 353.2 | |
| MB 480-733962/47 | Method Blank | Total/NA | Water | 353.2 | |
| MB 480-733962/5 | Method Blank | Total/NA | Water | 353.2 | |
| LCS 480-733962/27 | Lab Control Sample | Total/NA | Water | 353.2 | |
| LCS 480-733962/48 | Lab Control Sample | Total/NA | Water | 353.2 | |
| LCS 480-733962/6 | Lab Control Sample | Total/NA | Water | 353.2 | |
| 480-225829-2 MS | MW7 | Total/NA | Water | 353.2 | |
| 480-225829-2 MSD | MW7 | Total/NA | Water | 353.2 | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 353.2 | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 353.2 | |

Analysis Batch: 733965

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | Nitrate by calc | |
| 480-225829-2 | MW7 | Total/NA | Water | Nitrate by calc | |
| 480-225829-3 | MW8 | Total/NA | Water | Nitrate by calc | |
| 480-225829-4 | MW12RR | Total/NA | Water | Nitrate by calc | |
| 480-225829-5 | MW13 | Total/NA | Water | Nitrate by calc | |
| 480-225829-6 | DUP112524 | Total/NA | Water | Nitrate by calc | |
| 480-225829-8 | FB112524 | Total/NA | Water | Nitrate by calc | |

Analysis Batch: 734120

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 9012B | |
| 480-225829-2 | MW7 | Total/NA | Water | 9012B | |
| 480-225829-3 | MW8 | Total/NA | Water | 9012B | |
| 480-225829-4 | MW12RR | Total/NA | Water | 9012B | |
| 480-225829-5 | MW13 | Total/NA | Water | 9012B | |

Eurofins Buffalo

QC Association Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

General Chemistry (Continued)

Analysis Batch: 734120 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-6 | DUP112524 | Total/NA | Water | 9012B | |
| 480-225829-8 | FB112524 | Total/NA | Water | 9012B | |
| MB 480-734120/47 | Method Blank | Total/NA | Water | 9012B | |
| MB 480-734120/75 | Method Blank | Total/NA | Water | 9012B | |
| HLCS 480-734120/22 | Lab Control Sample | Total/NA | Water | 9012B | |
| LCS 480-734120/48 | Lab Control Sample | Total/NA | Water | 9012B | |
| LCS 480-734120/76 | Lab Control Sample | Total/NA | Water | 9012B | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 9012B | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 9012B | |

Analysis Batch: 734296

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | SM 5310D | |
| 480-225829-2 | MW7 | Total/NA | Water | SM 5310D | |
| 480-225829-3 | MW8 | Total/NA | Water | SM 5310D | |
| 480-225829-4 | MW12RR | Total/NA | Water | SM 5310D | |
| 480-225829-5 | MW13 | Total/NA | Water | SM 5310D | |
| 480-225829-6 | DUP112524 | Total/NA | Water | SM 5310D | |
| 480-225829-8 | FB112524 | Total/NA | Water | SM 5310D | |
| MB 480-734296/28 | Method Blank | Total/NA | Water | SM 5310D | |
| MB 480-734296/4 | Method Blank | Total/NA | Water | SM 5310D | |
| LCS 480-734296/29 | Lab Control Sample | Total/NA | Water | SM 5310D | |
| LCS 480-734296/5 | Lab Control Sample | Total/NA | Water | SM 5310D | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | SM 5310D | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | SM 5310D | |
| 480-225829-6 MS | DUP112524 | Total/NA | Water | SM 5310D | |
| 480-225829-8 DU | FB112524 | Total/NA | Water | SM 5310D | |

Analysis Batch: 734297

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-225829-1 | MW6 | Dissolved | Water | SM 5310C | |
| 480-225829-2 | MW7 | Dissolved | Water | SM 5310C | |
| 480-225829-3 | MW8 | Dissolved | Water | SM 5310C | |
| 480-225829-4 | MW12RR | Dissolved | Water | SM 5310C | |
| 480-225829-5 | MW13 | Dissolved | Water | SM 5310C | |
| 480-225829-6 | DUP112524 | Dissolved | Water | SM 5310C | |
| 480-225829-8 | FB112524 | Dissolved | Water | SM 5310C | |
| MB 480-734297/4 | Method Blank | Total/NA | Water | SM 5310D | |
| LCS 480-734297/5 | Lab Control Sample | Total/NA | Water | SM 5310D | |
| 480-225829-4 MS | MW12RR-MS | Dissolved | Water | SM 5310C | |
| 480-225829-4 MSD | MW12RR-MSD | Dissolved | Water | SM 5310C | |

Analysis Batch: 734415

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | D516-90, 02 | |
| 480-225829-2 | MW7 | Total/NA | Water | D516-90, 02 | |
| 480-225829-3 | MW8 | Total/NA | Water | D516-90, 02 | |
| 480-225829-4 | MW12RR | Total/NA | Water | D516-90, 02 | |
| 480-225829-5 | MW13 | Total/NA | Water | D516-90, 02 | |
| 480-225829-6 | DUP112524 | Total/NA | Water | D516-90, 02 | |
| 480-225829-8 | FB112524 | Total/NA | Water | D516-90, 02 | |

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QC Association Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

General Chemistry (Continued)

Analysis Batch: 734415 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| MB 480-734415/33 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-734415/41 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-734415/49 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-734415/57 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-734415/71 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-734415/79 | Method Blank | Total/NA | Water | D516-90, 02 | |
| MB 480-734415/86 | Method Blank | Total/NA | Water | D516-90, 02 | |
| LCS 480-734415/40 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-734415/48 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-734415/56 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-734415/78 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| LCS 480-734415/85 | Lab Control Sample | Total/NA | Water | D516-90, 02 | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | D516-90, 02 | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | D516-90, 02 | |

Analysis Batch: 734461

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-1 | MW6 | Total/NA | Water | 350.1 | |
| 480-225829-2 | MW7 | Total/NA | Water | 350.1 | |
| 480-225829-3 | MW8 | Total/NA | Water | 350.1 | |
| 480-225829-4 | MW12RR | Total/NA | Water | 350.1 | |
| MB 480-734461/64 | Method Blank | Total/NA | Water | 350.1 | |
| MB 480-734461/83 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-734461/65 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCS 480-734461/84 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-225829-4 MS | MW12RR-MS | Total/NA | Water | 350.1 | |
| 480-225829-4 MSD | MW12RR-MSD | Total/NA | Water | 350.1 | |

Analysis Batch: 734462

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-225829-5 | MW13 | Total/NA | Water | 350.1 | |
| 480-225829-6 | DUP112524 | Total/NA | Water | 350.1 | |
| 480-225829-8 | FB112524 | Total/NA | Water | 350.1 | |
| MB 480-734462/65 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 480-734462/66 | Lab Control Sample | Total/NA | Water | 350.1 | |
| 480-225829-5 MS | MW13 | Total/NA | Water | 350.1 | |
| 480-225829-5 MSD | MW13 | Total/NA | Water | 350.1 | |

Lab Chronicle

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW6
Date Collected: 11/25/24 15:40
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733821 | AD | EET BUF | 11/27/24 19:45 |
| Total/NA | Prep | 3510C | | | 733866 | DP | EET BUF | 11/27/24 11:40 |
| Total/NA | Analysis | 8270D | | 1 | 733985 | JMM | EET BUF | 12/02/24 17:02 |
| Total/NA | Analysis | RSK-175 | | 1 | 733966 | MAN | EET BUF | 12/02/24 11:27 |
| Dissolved | Prep | 3005A | | | 733903 | TC | EET BUF | 12/02/24 09:09 |
| Dissolved | Analysis | 6010C | | 1 | 734103 | BMB | EET BUF | 12/02/24 19:11 |
| Dissolved | Prep | 3005A | | | 734428 | ET | EET BUF | 12/06/24 08:54 |
| Dissolved | Analysis | 6010C | | 1 | 734608 | BMB | EET BUF | 12/06/24 14:50 |
| Total/NA | Prep | 3005A | | | 733897 | ET | EET BUF | 12/02/24 09:12 |
| Total/NA | Analysis | 6010C | | 1 | 734099 | BMB | EET BUF | 12/02/24 17:46 |
| Total/NA | Analysis | 350.1 | | 1 | 734461 | AM | EET BUF | 12/04/24 18:12 |
| Total/NA | Analysis | 353.2 | | 1 | 733962 | KB | EET BUF | 11/30/24 14:15 |
| Total/NA | Analysis | 9012B | | 1 | 734120 | CLT | EET BUF | 12/03/24 10:08 |
| Total/NA | Analysis | D516-90, 02 | | 5 | 734415 | CG | EET BUF | 12/05/24 09:31 |
| Total/NA | Analysis | Nitrate by calc | | 1 | 733965 | KB | EET BUF | 11/30/24 14:15 |
| Total/NA | Analysis | SM 2320B | | 1 | 733959 | KB | EET BUF | 11/27/24 17:47 |
| Dissolved | Analysis | SM 5310C | | 1 | 734297 | AF | EET BUF | 12/03/24 18:31 |
| Total/NA | Analysis | SM 5310D | | 1 | 734296 | AF | EET BUF | 12/03/24 13:53 |

Client Sample ID: MW7
Date Collected: 11/25/24 13:10
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733821 | AD | EET BUF | 11/27/24 20:10 |
| Total/NA | Prep | 3510C | | | 733866 | DP | EET BUF | 11/27/24 11:40 |
| Total/NA | Analysis | 8270D | | 1 | 733985 | JMM | EET BUF | 12/02/24 17:28 |
| Total/NA | Analysis | RSK-175 | | 1 | 733966 | MAN | EET BUF | 12/02/24 11:45 |
| Dissolved | Prep | 3005A | | | 734428 | ET | EET BUF | 12/06/24 08:54 |
| Dissolved | Analysis | 6010C | | 1 | 734608 | BMB | EET BUF | 12/06/24 14:52 |
| Total/NA | Prep | 3005A | | | 733897 | ET | EET BUF | 12/02/24 09:12 |
| Total/NA | Analysis | 6010C | | 1 | 734099 | BMB | EET BUF | 12/02/24 17:47 |
| Total/NA | Analysis | 350.1 | | 1 | 734461 | AM | EET BUF | 12/04/24 18:14 |
| Total/NA | Analysis | 353.2 | | 1 | 733962 | KB | EET BUF | 11/30/24 14:17 |
| Total/NA | Analysis | 9012B | | 1 | 734120 | CLT | EET BUF | 12/03/24 10:11 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 734415 | CG | EET BUF | 12/05/24 09:25 |
| Total/NA | Analysis | Nitrate by calc | | 1 | 733965 | KB | EET BUF | 11/30/24 14:17 |
| Total/NA | Analysis | SM 2320B | | 1 | 733959 | KB | EET BUF | 11/27/24 18:25 |
| Dissolved | Analysis | SM 5310C | | 1 | 734297 | AF | EET BUF | 12/03/24 18:58 |
| Total/NA | Analysis | SM 5310D | | 1 | 734296 | AF | EET BUF | 12/03/24 14:48 |

Lab Chronicle

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW8

Lab Sample ID: 480-225829-3

Date Collected: 11/25/24 17:30

Matrix: Water

Date Received: 11/27/24 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733821 | AD | EET BUF | 11/27/24 20:34 |
| Total/NA | Prep | 3510C | | | 733866 | DP | EET BUF | 11/27/24 11:40 |
| Total/NA | Analysis | 8270D | | 1 | 733985 | JMM | EET BUF | 12/02/24 17:54 |
| Total/NA | Analysis | RSK-175 | | 1 | 733966 | MAN | EET BUF | 12/02/24 12:04 |
| Dissolved | Prep | 3005A | | | 733903 | TC | EET BUF | 12/02/24 09:09 |
| Dissolved | Analysis | 6010C | | 1 | 734103 | BMB | EET BUF | 12/02/24 19:15 |
| Dissolved | Prep | 3005A | | | 734428 | ET | EET BUF | 12/06/24 08:54 |
| Dissolved | Analysis | 6010C | | 1 | 734608 | BMB | EET BUF | 12/06/24 14:54 |
| Total/NA | Prep | 3005A | | | 733897 | ET | EET BUF | 12/02/24 09:12 |
| Total/NA | Analysis | 6010C | | 1 | 734099 | BMB | EET BUF | 12/02/24 17:49 |
| Total/NA | Analysis | 350.1 | | 1 | 734461 | AM | EET BUF | 12/04/24 18:14 |
| Total/NA | Analysis | 353.2 | | 1 | 733962 | KB | EET BUF | 11/30/24 14:18 |
| Total/NA | Analysis | 9012B | | 1 | 734120 | CLT | EET BUF | 12/03/24 10:14 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 734415 | CG | EET BUF | 12/05/24 09:25 |
| Total/NA | Analysis | Nitrate by calc | | 1 | 733965 | KB | EET BUF | 11/30/24 14:18 |
| Total/NA | Analysis | SM 2320B | | 1 | 733959 | KB | EET BUF | 11/27/24 18:32 |
| Dissolved | Analysis | SM 5310C | | 1 | 734297 | AF | EET BUF | 12/03/24 19:26 |
| Total/NA | Analysis | SM 5310D | | 1 | 734296 | AF | EET BUF | 12/03/24 15:15 |

Client Sample ID: MW12RR

Lab Sample ID: 480-225829-4

Date Collected: 11/25/24 12:40

Matrix: Water

Date Received: 11/27/24 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733821 | AD | EET BUF | 11/27/24 20:59 |
| Total/NA | Prep | 3510C | | | 733866 | DP | EET BUF | 11/27/24 11:40 |
| Total/NA | Analysis | 8270D | | 2 | 734816 | JMM | EET BUF | 12/10/24 22:51 |
| Total/NA | Analysis | RSK-175 | | 1 | 733966 | MAN | EET BUF | 12/02/24 08:56 |
| Dissolved | Prep | 3005A | | | 733903 | TC | EET BUF | 12/02/24 09:09 |
| Dissolved | Analysis | 6010C | | 1 | 734103 | BMB | EET BUF | 12/02/24 19:23 |
| Total/NA | Prep | 3005A | | | 733897 | ET | EET BUF | 12/02/24 09:12 |
| Total/NA | Analysis | 6010C | | 1 | 734099 | BMB | EET BUF | 12/02/24 17:51 |
| Total/NA | Analysis | 350.1 | | 1 | 734461 | AM | EET BUF | 12/04/24 18:19 |
| Total/NA | Analysis | 353.2 | | 1 | 733962 | KB | EET BUF | 11/30/24 14:26 |
| Total/NA | Analysis | 9012B | | 1 | 734120 | CLT | EET BUF | 12/03/24 10:18 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 734415 | CG | EET BUF | 12/05/24 09:32 |
| Total/NA | Analysis | Nitrate by calc | | 1 | 733965 | KB | EET BUF | 11/30/24 14:26 |
| Total/NA | Analysis | SM 2320B | | 1 | 733959 | KB | EET BUF | 11/27/24 16:28 |
| Dissolved | Analysis | SM 5310C | | 1 | 734297 | AF | EET BUF | 12/03/24 17:08 |
| Total/NA | Analysis | SM 5310D | | 1 | 734296 | AF | EET BUF | 12/03/24 12:30 |

Lab Chronicle

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: MW13
Date Collected: 11/25/24 16:00
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733878 | AD | EET BUF | 11/28/24 08:01 |
| Total/NA | Prep | 3510C | | | 733866 | DP | EET BUF | 11/27/24 11:40 |
| Total/NA | Analysis | 8270D | | 1 | 733985 | JMM | EET BUF | 12/02/24 18:20 |
| Total/NA | Analysis | RSK-175 | | 1 | 733966 | MAN | EET BUF | 12/02/24 12:23 |
| Dissolved | Prep | 3005A | | | 733903 | TC | EET BUF | 12/02/24 09:09 |
| Dissolved | Analysis | 6010C | | 1 | 734103 | BMB | EET BUF | 12/02/24 19:25 |
| Total/NA | Prep | 3005A | | | 733897 | ET | EET BUF | 12/02/24 09:12 |
| Total/NA | Analysis | 6010C | | 1 | 734099 | BMB | EET BUF | 12/02/24 18:03 |
| Total/NA | Analysis | 350.1 | | 1 | 734462 | AM | EET BUF | 12/05/24 12:41 |
| Total/NA | Analysis | 353.2 | | 1 | 733962 | KB | EET BUF | 11/30/24 14:19 |
| Total/NA | Analysis | 9012B | | 1 | 734120 | CLT | EET BUF | 12/03/24 10:28 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 734415 | CG | EET BUF | 12/05/24 09:25 |
| Total/NA | Analysis | Nitrate by calc | | 1 | 733965 | KB | EET BUF | 11/30/24 14:19 |
| Total/NA | Analysis | SM 2320B | | 1 | 733959 | KB | EET BUF | 11/27/24 18:38 |
| Dissolved | Analysis | SM 5310C | | 1 | 734297 | AF | EET BUF | 12/03/24 19:53 |
| Total/NA | Analysis | SM 5310D | | 1 | 734296 | AF | EET BUF | 12/03/24 15:43 |

Client Sample ID: DUP112524
Date Collected: 11/25/24 00:00
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733878 | AD | EET BUF | 11/28/24 08:25 |
| Total/NA | Prep | 3510C | | | 733866 | DP | EET BUF | 11/27/24 11:40 |
| Total/NA | Analysis | 8270D | | 1 | 733985 | JMM | EET BUF | 12/02/24 18:46 |
| Total/NA | Analysis | RSK-175 | | 1 | 733966 | MAN | EET BUF | 12/02/24 12:42 |
| Dissolved | Prep | 3005A | | | 734440 | EMO | EET BUF | 12/05/24 14:53 |
| Dissolved | Analysis | 6010C | | 1 | 734592 | BMB | EET BUF | 12/06/24 14:20 |
| Total/NA | Prep | 3005A | | | 733897 | ET | EET BUF | 12/02/24 09:12 |
| Total/NA | Analysis | 6010C | | 1 | 734099 | BMB | EET BUF | 12/02/24 18:05 |
| Total/NA | Analysis | 350.1 | | 1 | 734462 | AM | EET BUF | 12/05/24 12:43 |
| Total/NA | Analysis | 353.2 | | 1 | 733962 | KB | EET BUF | 11/30/24 14:19 |
| Total/NA | Analysis | 9012B | | 1 | 734120 | CLT | EET BUF | 12/03/24 10:31 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 734415 | CG | EET BUF | 12/05/24 09:29 |
| Total/NA | Analysis | Nitrate by calc | | 1 | 733965 | KB | EET BUF | 11/30/24 14:19 |
| Total/NA | Analysis | SM 2320B | | 1 | 733959 | KB | EET BUF | 11/27/24 18:45 |
| Dissolved | Analysis | SM 5310C | | 1 | 734297 | AF | EET BUF | 12/03/24 20:21 |
| Total/NA | Analysis | SM 5310D | | 1 | 734296 | AF | EET BUF | 12/03/24 23:39 |

Lab Chronicle

Client: GEI Consultants Inc
 Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Client Sample ID: Trip Blank
Date Collected: 11/25/24 00:00
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733878 | AD | EET BUF | 11/28/24 08:50 |

Client Sample ID: FB112524
Date Collected: 11/25/24 00:00
Date Received: 11/27/24 10:00

Lab Sample ID: 480-225829-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260C | | 1 | 733878 | AD | EET BUF | 11/28/24 09:14 |
| Total/NA | Prep | 3510C | | | 733866 | DP | EET BUF | 11/27/24 11:40 |
| Total/NA | Analysis | 8270D | | 1 | 733985 | JMM | EET BUF | 12/02/24 19:12 |
| Total/NA | Analysis | RSK-175 | | 1 | 733966 | MAN | EET BUF | 12/02/24 13:01 |
| Dissolved | Prep | 3005A | | | 733903 | TC | EET BUF | 12/02/24 09:09 |
| Dissolved | Analysis | 6010C | | 1 | 734103 | BMB | EET BUF | 12/02/24 19:36 |
| Total/NA | Prep | 3005A | | | 733897 | ET | EET BUF | 12/02/24 09:12 |
| Total/NA | Analysis | 6010C | | 1 | 734099 | BMB | EET BUF | 12/02/24 18:07 |
| Total/NA | Analysis | 350.1 | | 1 | 734462 | AM | EET BUF | 12/05/24 12:44 |
| Total/NA | Analysis | 353.2 | | 1 | 733962 | KB | EET BUF | 11/30/24 14:20 |
| Total/NA | Analysis | 9012B | | 1 | 734120 | CLT | EET BUF | 12/03/24 10:34 |
| Total/NA | Analysis | D516-90, 02 | | 1 | 734415 | CG | EET BUF | 12/05/24 09:29 |
| Total/NA | Analysis | Nitrate by calc | | 1 | 733965 | KB | EET BUF | 11/30/24 14:20 |
| Total/NA | Analysis | SM 2320B | | 1 | 733959 | KB | EET BUF | 11/27/24 18:52 |
| Dissolved | Analysis | SM 5310C | | 1 | 734297 | AF | EET BUF | 12/03/24 20:49 |
| Total/NA | Analysis | SM 5310D | | 1 | 734296 | AF | EET BUF | 12/04/24 00:35 |

Laboratory References:

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

Accreditation/Certification Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York | NELAP | 10026 | 03-31-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------|
| SM 5310D | | Water | Total Organic Carbon |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | EET BUF |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | EET BUF |
| RSK-175 | Dissolved Gases (GC) | RSK | EET BUF |
| 6010C | Metals (ICP) | SW846 | EET BUF |
| 350.1 | Nitrogen, Ammonia | EPA | EET BUF |
| 353.2 | Nitrogen, Nitrite | EPA | EET BUF |
| 9012B | Cyanide, Total and/or Amenable | SW846 | EET BUF |
| D516-90, 02 | Sulfate | ASTM | EET BUF |
| Nitrate by calc | Nitrogen, Nitrate-Nitrite | SM | EET BUF |
| SM 2320B | Alkalinity | SM | EET BUF |
| SM 5310C | Organic Carbon, Dissolved (DOC) | SM | EET BUF |
| SM 5310D | Organic Carbon, Total (TOC) | SM | EET BUF |
| 3005A | Preparation, Total Metals | SW846 | EET BUF |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET BUF |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | EET BUF |
| 5030C | Purge and Trap | SW846 | EET BUF |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Sample Summary

Client: GEI Consultants Inc
Project/Site: Quarterly Groundwater

Job ID: 480-225829-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-225829-1 | MW6 | Water | 11/25/24 15:40 | 11/27/24 10:00 |
| 480-225829-2 | MW7 | Water | 11/25/24 13:10 | 11/27/24 10:00 |
| 480-225829-3 | MW8 | Water | 11/25/24 17:30 | 11/27/24 10:00 |
| 480-225829-4 | MW12RR | Water | 11/25/24 12:40 | 11/27/24 10:00 |
| 480-225829-5 | MW13 | Water | 11/25/24 16:00 | 11/27/24 10:00 |
| 480-225829-6 | DUP112524 | Water | 11/25/24 00:00 | 11/27/24 10:00 |
| 480-225829-7 | Trip Blank | Water | 11/25/24 00:00 | 11/27/24 10:00 |
| 480-225829-8 | FB112524 | Water | 11/25/24 00:00 | 11/27/24 10:00 |

1

2

3

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6

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8

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10

11

12

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14

15

Chain of Custody Record

Client Information
 Client Contact: Ms. Emily Dallas
 Company: GEI Consultants Inc
 Address: 950 Danby Road Suite 201-F
 City: Ithaca
 State: NY
 Zip: 14850
 Phone: 607-216-8956(Tel)
 Email: edallas@geiconsultants.com
 Project Name: Hornell, NY - MGP Site - Quarterly
 Site:

Sampler: J. DeRosiers / A. Jock
 Lab PM: Schove, John R
 Phone: (607) 216-8983 / (607) 216-8985
 E-Mail: John.Schove@et.eurofins.com

COC No: 480-200965-41065.1
 Page: 1 of 1
 Job #:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, On-site, A-Air) | 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 | SM5310D - TOC | SM5310 DOC_C - DOC | 350.1 - Ammonia | 353.2, 353.2 Nitrite, D516, Nitrate, Calc | | 2320B - Alkalinity | Volatile Organic Contants | Total Number of containers | | | | | |
| MW6 | 11/25/24 | 1540 | | Water | X | | | | | | | | | | | | | | | | | | | | |
| MW7 | | 1310 | | Water | | | | | | | | | | | | | | | | | | | | | |
| MW8 | | 1730 | | Water | | | | | | | | | | | | | | | | | | | | | |
| MW12 RR | | 1240 | | Water | | | | | | | | | | | | | | | | | | | | | |
| MW12 RR - MSD | | 1240 | | Water | | | | | | | | | | | | | | | | | | | | | |
| MW13 | | 1240 | | Water | | | | | | | | | | | | | | | | | | | | | |
| DUPI12524 | | 1600 | | Water | | | | | | | | | | | | | | | | | | | | | |
| Trip Blank | | 0000 | | Water | | | | | | | | | | | | | | | | | | | | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: *Sasha DeRosiers* Date: 11/26/24 9:00
 Relinquished by: *Sasha DeRosiers* Company: GEI
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: *5.5, 3.6, 4.8*

Method of Shipment: *Fedex*
 Received by: *VCS* Date/Time: 11-27-24 1000
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____



Login Sample Receipt Checklist

Client: GEI Consultants Inc

Job Number: 480-225829-1

Login Number: 225829

List Source: Eurofins Buffalo

List Number: 1

Creator: Stapleton, Kaitlyn

| Question | Answer | Comment |
|--|--------|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 5.5, 3.6, 4.8 IR#SC ice |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | False | 1 sample point not listed, volume recieved. |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | GEI Consultants |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | N/A | |

Appendix D

Data Usability Summary Report

Site: Hornell, NY Groundwater Sampling
Laboratory: Eurofins, Amherst, NY
Report Number: 480-225829
Reviewer: Bethany Russell/GEI Consultants
Date: December 18, 2024

Samples Reviewed and Evaluation Summary

| FIELD ID | LAB ID | Level 2 Review |
|------------|--------------|---|
| MW6 | 480-225829-1 | BTEX, PAH, Cyanide, total and dissolved Metals, Methane, TOC, DOC, Ammonia, Nitrate and Nitrite, and Alkalinity |
| MW7 | 480-225829-2 | BTEX, PAH, Cyanide, total and dissolved Metals, Methane, TOC, DOC, Ammonia, Nitrate and Nitrite, and Alkalinity |
| MW8 | 480-225829-3 | BTEX, PAH, Cyanide, total and dissolved Metals, Methane, TOC, DOC, Ammonia, Nitrate and Nitrite, and Alkalinity |
| MW12RR | 480-225829-4 | BTEX, PAH, Cyanide, total and dissolved Metals, Methane, TOC, DOC, Ammonia, Nitrate and Nitrite, and Alkalinity |
| MW13 | 480-225829-5 | BTEX, PAH, Cyanide, total and dissolved Metals, Methane, TOC, DOC, Ammonia, Nitrate and Nitrite, and Alkalinity |
| DUP112524 | 480-225829-6 | BTEX, PAH, Cyanide, total and dissolved Metals, Methane, TOC, DOC, Ammonia, Nitrate and Nitrite, and Alkalinity |
| Trip Blank | 480-225829-7 | BTEX |
| FB112524 | 480-225829-8 | BTEX, PAH, Cyanide, total and dissolved Metals, Methane, TOC, DOC, Ammonia, Nitrate and Nitrite, and Alkalinity |

Associated QC Samples:

Trip/Field Blanks: Trip Blank, FB112524

Field Duplicate Pair: DUP112524/MW7

The above-listed aqueous samples were collected on November 25, 2024 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, total cyanide by SW-846 method 9012B, select total and dissolved metals by SW-846 method 6010C, methane by method RSK-175, ammonia by EPA method 350.1, nitrite by EPA method 353.2, sulfate by ASTM method D516-90,02, nitrate by SM method Nitrate by calc, Alkalinity by SM method 2320B, dissolved organic carbon (DOC) by SM method 5310C, and total organic carbon (TOC) by SM method 5310D. The data validation was performed in accordance with the following USEPA Region 2 Documents: Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016), SOP HW-33A (Revision 1) *Low/Medium Volatile Data Validation* (September 2016), and *USEPA Region 2 Standard Operating Procedures (SOPs) for the Evaluation of Cyanide for the Contract Laboratory Program* (September 2016), *USEPA Region 2 Standard Operating Procedures (SOPs) for the Evaluation of Metals for the Contract Laboratory Program* (September 2016), 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

The following issue was noted which may have a significant impact on the data usability:

- The nondetect results for nitrite in samples MW6, MW7, MW8, MW12RR, MW13, DUP112524 and FB112524 were rejected (R) due to hold time nonconformance. These results should not be used for decision-making purposes.

All other results appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. Select results were qualified as estimated due to blank contamination, hold time exceedances, MS/MSD recovery exceedances, ICSA standard analysis nonconformance, and uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All criteria were met except where noted below.

| Sample | Analysis | Hold Time | Exceedance | Validation Action |
|-----------|--------------|-----------|------------|--|
| MW6 | Nitrate as N | 48 hours | 3 days | Estimate (J) the detect result for nitrate. |
| | Nitrite as N | | 8 days | Reject (R) the nondetect result for nitrite. |
| MW7 | Nitrate as N | | 3 days | Estimate (J) the detect result for nitrate. |
| | Nitrite as N | | 8 days | Reject (R) the blank corrected nondetect result for nitrite. |
| MW8 | Nitrate as N | | 3 days | Estimate (J) the detect result for nitrate. |
| | Nitrite as N | | 8 days | Reject (R) the nondetect result for nitrite. |
| MW12RR | Nitrate as N | | 3 days | Estimate (J) the detect result for nitrate. |
| | Nitrite as N | | 8 days | Reject (R) the blank corrected nondetect result for nitrite. |
| MW13 | Nitrate as N | | 3 days | Estimate (J) the detect result for nitrate. |
| | Nitrite as N | | 8 days | Reject (R) the nondetect result for nitrite. |
| DUP112524 | Nitrate as N | | 3 days | Estimate (J) the detect result for nitrate. |
| | Nitrite as N | | 8 days | Reject (R) the nondetect result for nitrite. |
| FB112524 | Nitrate as N | | 3 days | Estimate (J) the detect result for nitrate. |

| | | | | |
|--|--------------|--|--------|--|
| | Nitrite as N | | 8 days | Reject (R) the nondetect result for nitrite. |
|--|--------------|--|--------|--|

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met except where noted below.

| Instrument/ Calibration Standard | Compound | Calibration Exceedance | Validation Qualifier |
|--------------------------------------|-----------|---------------------------|---|
| Metals | | | |
| ICP metals ICSA standard Analysis | Manganese | Detected >MDL | No validation action required. Interferent levels are not similar to ICSA sample. |

Associated samples: MW6, MW7, MW8, MW12RR, MW13, DUP112524, FB112524

Reporting limit standard Criteria of 70-130 %R not met: estimate (J/UJ) results <10xRL dependent on recovery. ICSA Detections >MDL; Evaluation required if sample interferent levels are similar to ICSA sample.

Blanks

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

| Analyte | Blank ID/ Associated Samples | Blank Concentration | 2X Action Level | 10X Action Level | Validation Actions |
|---------------------|---|---------------------|-----------------|------------------|---|
| Dissolved Iron | MB 480-733903/ MW13, FB112524 | 0.0289 mg/L | 0.0578 mg/L | 0.289 mg/L | Report the result for dissolved iron in sample MW13 as nondetect (U) at the RL. |
| Dissolved Manganese | | 0.00192 mg/L | 0.00384 mg/L | 0.0192 mg/L | Estimate (J) the result for dissolved manganese in sample MW13. |
| Ammonia | MB 480-734461/ MW6, MW7, MW8, MW12RR | 0.012 mg/L | 0.024 mg/L | 0.12 mg/L | Validation action not required as associated samples are greater than the 10X AL. |
| Ammonia | MB 480-734462/ MW13, DUP112524, FB112524 | 0.012 mg/L | 0.024 mg/L | 0.12 mg/L | Validation action not required as associated samples are greater than the 10X AL. |
| Sulfate | MB 480-734415/ MW6, MW7, MW8, MW12RR, MW13, DUP112524, FB112524 | 1.72 mg/L | 3.44 mg/L | 17.2 mg/L | Validation action not required as associated samples are greater than the 10X AL. |

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| Analyte | Blank ID/ Associated Samples | Blank Concentration | 2X Action Level | 10X Action Level | Validation Actions |
|--------------------------|---|---------------------|-----------------|------------------|--|
| Total Iron | CCB 480-734099/74/ MW6, MW7, MW8, MW12RR, MW13, DUP112524, FB112524 | 0.0291 mg/L | 0.0582 mg/L | 0.291 mg/L | Estimate (J) the detect results for total iron in samples MW7 and DUP112524. Report the results for total iron in samples MW8, MW12RR, and MW13 as nondetect (U) at the RL. |
| Dissolved Iron | CCB 480-734592/33/ MW6, MW7, MW8, MW12RR, MW13, DUP112524, FB112524 | 0.0224 mg/L | 0.0448 mg/L | 0.224 mg/L | Estimate (J) the detect results for dissolved iron in samples MW7 and DUP112524. |
| Nitrite | CCB 25/ MW6, MW7, MW8, MW12RR, MW13, DUP112524, FB112524 | 0.025 mg/L | 0.05 mg/L | 0.25 mg/L | Report the results for nitrite in samples MW7 and MW12RR as nondetect (U) at the RL. |
| Sulfate | CCB 30/ MW6, MW7, MW8, MW12RR, MW13, DUP112524, FB112524 | 1.54 mg/L | 3.08 mg/L | 15.4 mg/L | Validation action not required as associated samples are greater than the 10X AL. |
| Ammonia | CCB 74/ / MW6, MW7, MW8, MW12RR | 0.014 mg/L | 0.028 mg/L | 0.14 mg/L | Validation action not required as associated samples are greater than the 10X AL. |
| Ammonia | CCB 64/ MW13, DUP112524, FB112524 | 0.013 mg/L | 0.026 mg/L | 0.13 mg/L | Validation action not required as associated samples are greater than the 10X AL. |
| Ammonia | FB112524/ MW6, MW7, MW8, MW12RR, MW13, DUP112524 | 0.26 mg/L | 0.52 mg/L | 2.6 mg/L | Estimate (J) the detect result for ammonia in sample MW13. |
| Nitrate and Nitrite as N | | 0.027 mg/L | 0.054 mg/L | 0.27 mg/L | Validation action not required as associated samples are greater than the 10X AL. |
| Nitrate | | 0.027 mg/L | 0.054 mg/L | 0.27 mg/L | Validation action not required as associated samples are greater than the 10X AL. |

Blank Actions:

If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.

If the sample result is ≥ RL and < blank contamination detected; report the result as nondetect (U) at the reported value.

If the sample result is ≥ RL and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.

If the sample result is nondetect or ≥ 10x Action Level; validation action is not required.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analysis were performed on sample MW12RR for BTEX, PAH, methane, total metals, dissolved metals, ammonia, nitrite, cyanide³, DOC, and TOC sample DUP112524 for dissolved metals and TOC, sample MW13 for ammonia, and sample MW7 for nitrite. All recovery and precision criteria were met for levels less than four times the spike amount except where noted below.

| MS/MSD Sample MW12RR | | | | | |
|----------------------|--------|---------|---------|----------------|--|
| Analyte | MS (%) | MSD (%) | RPD (%) | Control Limits | Validation Action/Bias |
| Nitrite | 71 | 70 | - | 90-110 | Estimate (J) the detect results for nitrite in samples MW7 and MW12RR. |
| Alkalinity | 42 | 42 | - | 60-140 | Estimate (J/UJ) the detect and nondetect results for alkalinity in samples MW6, MW7, MW8, MW12RR, MW13, DUP112524, and FB112524. |
| - Criteria met | | | | | |

| MS/MSD Sample MW7 | | | | | |
|-------------------|--------|---------|---------|----------------|--|
| Analyte | MS (%) | MSD (%) | RPD (%) | Control Limits | Validation Action/Bias |
| Nitrite | 70 | 73 | - | 90-110 | Estimate (J) the detect results for nitrite in samples MW7 and MW12RR. |
| - Criteria met | | | | | |

Laboratory Duplicate Results

Laboratory duplicate analysis was performed on sample FB112524 for TOC. All precision criteria were met.

Field Duplicate Results

Samples MW7 and DUP112524 were identified as the field duplicate pair. The following table summarizes the RPDs of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

| Analyte | MW7 (mg/L) | DUP112524 (mg/L) | RPD (%) |
|------------|------------|------------------|--------------------|
| Alkalinity | 321 | 315 | 1.9 |
| Ammonia | 0.86 | 0.58 | 38.8, within 2x RL |
| DOC | 0.91 J | 0.86 J | Within 2x RL |

| Analyte | MW7 (mg/L) | DUP112524 (mg/L) | RPD (%) |
|---|---------------|---------------------|--------------------|
| Dissolved Iron | 0.10 | 0.10 | 0 |
| Total Iron | 0.14 | 0.16 | 13.3 |
| Dissolved Manganese | 0.0076 | 0.0085 | 11.2 |
| Total Manganese | 0.014 | 0.022 | 44.4, within 2x RL |
| Nitrate and Nitrite as Nitrogen | 4.0 | 3.0 | 28.5 |
| Nitrate as Nitrogen | 4.0 | 3.0 | 28.5 |
| Sulfate | 29.2 | 38.4 | 27.2 |
| Total Cyanide | 0.26 | 0.27 | 3.8 |
| TOC | 0.95 J | 0.90 J | Within 2x RL |
| NC – Not calculable | | | |
| Criteria: When both results are $\geq 5x$ the RL, RPDs must be $< 30\%$. | | | |
| When results are $< 5x$ the RL, the absolute difference between the original and field duplicate must be $< 2xRL$ | | | |

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Quantitation Limits

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

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

| Sample | Analysis | Dilution Performed |
|--------|----------|---|
| MW6 | Sulfate | The sample was analyzed at a 5-fold dilution due to high analyte level. |
| MW12RR | PAH | The sample was analyzed at a 2-fold dilution. Reporting limits are elevated in this sample. |

Serial Dilution Results

A serial dilution analysis was performed on sample DUP112524 for dissolved metals. Precision criteria were met.

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Sample Quantitation and Compound Identification

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

A comparison of total and dissolved metals results was performed. All sample total metals results exceeded those of the dissolved metals.

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.