GROUNDWATER MONITORING REPORT JANUARY THROUGH JUNE 2021

National Grid Former Albion MGP Site
Albion, New York

Prepared for:

National Grid
300 Erie Blvd West
Syracuse, New York 13202

Prepared by:

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June 2021

Project No. 0078000050.04.****

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June 15, 2021

Project 0078000050.04.****

Mr. Michael Squire
Assistant Engineer
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Subject: **Groundwater Monitoring Report—January Through June 2021**
National Grid Former Albion MGP Site
Albion, New York
Case #837012

Dear Mr. Squire:

Wood Environment & Infrastructure Solutions, Inc. is submitting the subject report on behalf of our client, National Grid. This report presents the results of monitoring activities conducted during the period from January through June 2021.

Please contact either of the undersigned if you have any questions or require additional information.

Sincerely,
Wood Environment & Infrastructure Solutions, Inc.

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ar/db/mr
https://woodplc.sharepoint.com/teams/bayareadocusafe/national grid company plc/20210615_1sa21_gwmr/01_text/1q2021 gwmr_cvrltr.docx

Enclosure

cc: Brian Stearns - National Grid
Steve Stucker - National Grid
Devin Shay - Groundwater & Environmental Services, Inc.

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

GROUNDWATER MONITORING REPORT
JANUARY THROUGH JUNE 2021

National Grid Former Albion MGP Site
Albion, New York

1.0 INTRODUCTION

This report summarizes groundwater monitoring and sampling activities performed by Wood Environment & Infrastructure Solutions, Inc. ("Wood"), on behalf of National Grid Corporation ("National Grid"), during the period from January through June 2021 ("reporting period") at the Former Albion Manufactured Gas Plant (MGP), Site Identification Number 837012, in Albion, New York (the site; Figure 1). Groundwater monitoring and sampling activities were performed in accordance with the *Monitoring and Sampling Plan* (Wood, 2018), as summarized in Table 1.

Activities performed at the site during the reporting period include the following:

- Collection of depth to groundwater measurements and groundwater samples; and
- Inspection of the site Engineering Control (i.e. soil cap) and Institutional Controls (i.e. land use).

Depth to groundwater measurement and sampling procedures are described in Section 2, and groundwater monitoring results are provided in Section 3. A quality assurance/quality control (QA/QC) assessment of the groundwater data is provided in Section 4. Results of the inspection of the site Engineering Control and Institutional Controls are described in Section 5. Project activities planned for the next monitoring period are outlined in Section 6.

1.1 BACKGROUND

The site consists of two adjoining parcels totaling approximately 0.5 acres formerly occupied by a single MGP that is bounded by the New York State Erie Barge Canal to the north, East Bank Street and a commercial property to the south, Ingersoll Street to the east, and a park and commercial property to the west (Figure 2). The western parcel (0.3 acres) is currently owned by National Grid, which maintains an active electrical substation on the property; previous environmental investigations did not identify environmental conditions requiring remediation. The eastern parcel (0.2 acres), which is currently owned by New York State Electric

and Gas Corporation (NYSEG), has been remediated to commercial use and is currently vacant and undeveloped.

Niagara Mohawk Power Corporation (doing business as National Grid) entered an Order of Consent in November 2003 with the NYSDEC to remediate soil and groundwater at the site, which have been impacted by historical MGP operations. The contaminants of concern (COCs) identified at the site, as listed in the Record of Decision (NYSDEC, 2010a) are: benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX); polycyclic aromatic hydrocarbons (PAHs) acenaphthene, benzo(a)pyrene, benzo(b)fluoranthene, benzo[k]fluoranthene, chrysene, fluorene, and indeno(1,2,3-cd)pyrene; and cyanide. In 2012, Engineering Controls were constructed at the eastern parcel including remedial excavation of the upper two feet of impacted surficial soil and construction of a soil cap system consisting of 18 inches of clean soil underlain by a demarcation layer to delineate clean soil from historical fill.

In addition to Engineering Controls, Institutional Controls including a site-wide Site Management Plan (SMP) and Environmental Easement are part of the site remedy to control exposure to remaining contamination and to maintain protection of public health and the environment. The *Monitoring and Sampling Plan* will ultimately be incorporated with the site wide SMP, which is currently under development, to conduct post-remediation monitoring to assess the performance and effectiveness of the remedy.

2.0 GROUNDWATER MONITORING

This section describes groundwater monitoring activities performed by Wood during the reporting period. The groundwater monitoring program including wells and their monitoring and sampling frequencies is summarized in Table 1. Figure 2 shows the locations of groundwater monitoring wells at the site. Appendix A includes the logs on which field data were recorded.

2.1 WATER LEVEL MEASUREMENTS

Depth to water measurements at site monitoring wells were measured on April 12, 2021, prior to sampling of the wells (Table 2). Depth to groundwater was measured with an electronic water level sounder from a surveyed reference point marked on the top of each well casing and measurements were recorded to the nearest 0.01 foot. The Erie Canal, which boarders the Site to the north, is drained during the winter and had not been refilled by the April 2021

sampling event. The depth to the base of the canal was measured from a dedicated, non-surveyed point selected and recorded by field personnel. The sounder was decontaminated between measurement locations by rinsing with an anionic detergent/distilled water mixture, followed by a distilled water rinse.

2.2 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater samples were collected on April 12 and 13, 2021 in accordance with *Monitoring and Sampling Plan*. Monitoring wells were purged using low-flow sampling techniques prior to sampling using a peristaltic pump. Water quality parameters, including temperature, pH, specific conductance, oxidation-reduction potential, and dissolved oxygen were measured periodically during purging and were recorded on the sampling records. Samples were collected when parameter measurements changed less than 10 percent between three sequential measurements. Sampling records are provided in Appendix A.

Groundwater samples were collected into laboratory-provided sample containers immediately following purging. The sample containers were immediately labeled with the project number, well number, date, time, and analyses requested, stored in an ice cooled chest, and shipped to the analytical laboratory under Wood chain-of-custody procedures.

One blind field duplicate, one trip blank, and one equipment blank were collected for quality control purposes. These quality control samples were stored and delivered to the lab with the primary samples and were analyzed for the same parameters.

Eurofins TestAmerica Laboratories, Inc., of Amherst, New York, analyzed the samples for BTEX using United States Environmental Protection Agency (U.S. EPA) Method 8260B and the U.S. EPA 16-PAH list of polycyclic aromatic hydrocarbons (PAHs) using U.S. EPA Method 8270D. The samples were analyzed for total cyanide by Eurofins TestAmerica of North Canton, Ohio, using Standard Method SM4500-CN-C/E. Both laboratories are accredited under the National Environmental Laboratory Accreditation Program.

2.3 INVESTIGATION DERIVED WASTE

Groundwater purged from the monitoring wells was stored in a Department of Transportation-approved 55-gallon steel drum pending waste profiling. Following laboratory analysis and profiling, the investigation derived waste was disposed of at an off-site, permitted facility in accordance with state and federal regulations.

3.0 RESULTS

This section presents the results from the groundwater monitoring activities, including groundwater elevation measurement and analytical testing.

3.1 OCCURRENCE AND MOVEMENT OF GROUNDWATER

Measurements from the monitoring wells were used to evaluate the occurrence and movement of groundwater at the site.

On April 12, 2021, measured groundwater elevations in monitoring wells ranged from 505.55 (MW-9R) to 505.28 feet (MW-1). Depth to water measurements and water level elevations are summarized in Table 2. All elevations referenced are relative to the North American Vertical Datum 1988.

Figure 3 presents the potentiometric surface map for the water levels measured in the monitoring wells in April 2021. The potentiometric surface map indicates that groundwater flow is generally toward the southeast across the site. The horizontal gradient was approximately 0.024 foot per foot (ft/ft) in April 2021.

The Erie Canal was drained and a depth to the bank of the canal beneath the measuring point on April 12, 2021 was 13.60 feet. This is the first event during which the Erie Canal has been observed to be drained of water. The depth to water in the canal will be measured during future events at the same location.

3.2 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from six monitoring wells for BTEX, PAH, and total cyanide analysis on April 12 and 13, 2021. Groundwater evaluation criteria are the Ambient Water Quality Standards and Guidance Values (Technical & Operational Guidance Series 1.1.1, Division of Water 1998). Groundwater results are compared to the Standard Values (or Guidance Values, where Standard Values are not available) for groundwater as a drinking water source. Copies of laboratory reports are included in Appendix B. Analytical results and evaluation criteria for BTEX, PAHs, and total cyanide are presented in Table 3, Table 4, and Table 5, respectively, and on Figure 4. Compounds that were detected at concentrations exceeding their respective evaluation criteria are summarized below:

- Benzene (MW-5, MW-8R, MW-10R)

- Ethylbenzene (MW-5 and MW-8R)
- Xylenes (MW-5 and MW-8R)
- Acenaphthene (MW-8R)
- Naphthalene (MW-5 and MW-8R)
- Toluene (MW-8R)

Groundwater results from April 2021 are generally consistent with those from the most recent sampling event (September 2021) except for BTEX compounds in well MW-8R, which were detected at concentrations less than half of those observed in samples collected during the September 2020 sampling event. The BTEX concentrations observed in the MW-8R sample collected in September 2020 were several orders of magnitude greater than those from the previous monitoring event (November 2019). While the concentrations of BTEX compounds in MW-8R have shown significant variability during recent monitoring events, they are within the range of historical concentrations at this well (AMEC Geomatrix, Inc., 2010).

4.0 DATA QUALITY REVIEW

Analytical data (Appendix B) were reviewed by the laboratory and by Wood. Consistent with the DER-10 Section 2.2 (NYSDEC, 2010b), this report meets the submittal requirements for a Category A data deliverable. The data quality review included accuracy and precision assessments for the samples collected in April 2021. Consistent with the Quality Assurance Project Plan included in the Monitoring and Sampling Plan, the data quality review was performed in accordance with the procedures specified in the U.S. EPA National Functional Guidelines for Superfund Inorganic Methods Data Review (U.S. EPA, 2017a) and the U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review (U.S. EPA, 2017b). Results of the data validation and precision assessment indicate the following:

- Analytical accuracy was evaluated by reviewing laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries and matrix spike/matrix spike duplicate (MS/MSD) recoveries (recoveries of spiked compounds expressed as a percentage of the true concentrations). Surrogate recoveries, holding times, and field and laboratory blank results for samples collected in April 2021 were also used to assess accuracy. No QC issues requiring data qualifiers were identified for the laboratory and field QC samples. Results for several analytes in multiple samples were qualified "J," indicating that the analyte was positively detected in the sample, but that the reported result is approximate because it was

detected at a concentration below the reporting limit but above the method detection limit.

- Data precision was evaluated by comparing analytical results from duplicate pairs and evaluating the calculated RPDs between primary and blind field duplicate samples. The calculated RPD for the blind field duplicate sample collected from MW-5 were within the project acceptance criterion of 30% for organics and 20% for inorganics. A summary of the data precision evaluation is included on Table 6.

Based upon the data quality review, the April 2021 results are considered valid and usable. The data are acceptable and can be used for decision-making purposes. Data completeness (the number of successful analyses relative to the number of requested analyses) was 100 percent for samples collected in April 2021.

5.0 SITE INSPECTION

During the semiannual groundwater sampling event, Wood field personnel performed a visual assessment of the soil cap in order to evaluate changes due to erosion, land use, construction, or other factors that may indicate a physical change in the soil cap. Observations were recorded on a "Soil Cap Inspection Form" (Appendix C).

The visual inspections did not indicate any damage to the physical integrity of the soil cap. the need for any repairs or maintenance, or changes to the land use.

6.0 PLANNED ACTIVITIES

The following activities are planned for the monitoring period of July to December 2021:

- The second 2021 semiannual groundwater monitoring event, which will include collection of depth to groundwater measurements and groundwater samples in accordance with the NYSDEC-approved groundwater monitoring program, will be performed.
- The second 2021 semiannual groundwater monitoring report will be submitted to the NYSDEC following the completion of groundwater monitoring and evaluation activities.

7.0 REFERENCES

AMEC Geomatrix, Inc., 2010. Feasibility Study Report, Albion Former Manufactured Gas Plant Site, Site No: 8-37-012, Orleans County, Albion, New York. February.

Division of Water, 1998. Technical and Operational Guidance Series (TOGS) 1.1.1. June. Available at https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

New York State Department of Environmental Conservation (NYSDEC), 2010a. Record of Decision. NM-Albion MGP State Superfund Project, Albion, Orleans County Site No.:837013. March.

NYSDEC, 2010b. DER-10: Technical Guidance for Site Investigation and Remediation. May 3. Available at https://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf

United States Environmental Protection Agency (U.S. EPA), 2017a. National Functional Guidelines for Superfund Inorganic Methods Data Review: OLEM 9355.0-135, EPA 540-R-2017-001, January.

U.S. Environmental Protection Agency, 2017b. National Functional Guidelines for Superfund Organic Methods Data Review: OLEM 9355.0-134, EPA 540-R-2017-002, January.

Wood Environment & Infrastructure Solutions, Inc., 2018. Monitoring and Sampling Plan, National Grid Former Albion MGP Site, Albion, New York, December 21.

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TABLES

TABLE 1

GROUNDWATER MONITORING PROGRAM

Former Albion MGP Site

Albion, New York

Well ID	Water Level Monitoring Schedule	Water Quality Monitoring Schedule	Laboratory Analysis
MW-1	Semiannual	Semiannual	BTEX by U.S. EPA 8260B, PAHs by U.S. EPA 8270D, Total Cyanide by SM4500-CN-C/E
MW-5			
MW-6			
MW-8R			
MW-9R			
MW-10R			

Abbreviations

BTEX = benzene, toluene, ethylbenzene, xylenes

PAHs = polycyclic aromatic hydrocarbons

U.S. EPA = United States Environmental Protection Agency

TABLE 2

GROUNDWATER ELEVATIONS
APRIL 2021
Former Albion MGP Site
Albion, New York

Well ID	Well Location	Date Measured	Measuring Point Elevation (NAVD 88)	Depth Below Measuring Point (feet)	Groundwater Elevation (NAVD 88)
MW-1	Up-gradient	11/19/2019	515.04	7.91	507.13
		9/22/2020	515.04	6.74	508.30
		4/12/2021	515.04	9.76	505.28
MW-5	On-site	11/19/2019	513.14	7.92	505.22
		9/22/2020	513.14	7.55	505.59
		4/12/2021	513.14	9.22	503.92
MW-6	On-site	11/20/2019	510.74	5.46	505.28
		9/22/2020	510.74	6.39	504.35
		4/12/2021	510.74	5.94	504.8
MW-8R	On-site	11/20/2019	515.53	11.84	503.69
		9/22/2020	515.53	11.67	503.86
		4/12/2021	515.53	12.73	502.8
MW-9R	Down-gradient	11/20/2019	514.70	12.89	501.81
		9/22/2020	514.70	13.93	500.77
		4/12/2021	514.70	13.15	501.55
MW-10R	Down-gradient	11/19/2019	515.81	12.92	502.89
		9/22/2020	515.81	12.75	503.06
		4/12/2021	515.81	13.94	501.87

Note

1. Wells were surveyed by Costich Engineering, Land Surveying & Landscape Architecture D.P.C. (Costich Engineering), a New York-licensed land surveyor in June 2018. Monitoring well MW-9R was surveyed on November 11, 2019 by Costich Engineering. Water elevations are relative to the North American Vertical Datum 1988 (NAVD 88).

Abbreviation

NAVD 88 = North American Vertical Datum of 1988

TABLE 3

GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS [1,2]
APRIL 2021
Former Albion MGP Site
Albion, New York

Results in micrograms per liter (µg/L)

Well ID	Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	m-Xylene & p-Xylene	o-Xylene	Xylenes, Total	Total BTEX
MW-1	MW-1-111919	11/19/2019	<1.0 [3]	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-1-20200922	9/22/2020	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-1-041221	4/12/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
MW-5	MW-5-111919/DUP	11/19/2019	**23 / 23**	**4.0 / 4.1**	**13 / 12**	**9.1 / 8.6**	**12 /11**	**21 / 20**	**61 / 59**
	MW-5-20200922/DUP	9/22/2020	**42 / 42**	**4.2 / 4.5**	**8.7 / 9.4**	**3.4 / 3.4**	**5.3 / 5.7**	**8.7 / 9.1**	**64 / 65**
	MW-5-041221/DUP	4/12/2021	**28 / 28**	**3.2 / 2.8**	**11 / 10**	**6.4 / 5.6**	**8.4 / 8.1**	**15 / 14**	**57 / 55**
MW-6	MW-6-112019	11/20/2019	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-6-20200923	9/23/2020	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-6-041221	4/12/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
MW-8R	MW-8R-112019	11/20/2019	**49**	**2.6**	**3.7**	**12**	**5.7**	**18**	**73**
	MW-8R-20200923	9/23/2020	**4,900**	**160**	**380**	**1,600**	**520**	**2,100**	**7,600**
	MW-8R-041321	4/13/2021	**2,000**	**45 J**	**130**	**470**	**180**	**650**	**2,800**
MW-9R	MW-9R-112019	11/20/2019	<1.0	**0.57 J**	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-9R-20200923	9/23/2020	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-9R-041321	4/13/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
MW-10R	MW-10-111919	11/19/2019	**14**	<1.0	<1.0	<2.0	<1.0	<2.0	**14**
	MW-10R-20200922	9/22/2020	**24**	<1.0	<1.0	**0.95 J**	<1.0	**0.95 J**	**25**
	MW-10R-041221	4/12/2021	**23**	<1.0	<1.0	<2.0	<1.0	<2.0	**23**
Ambient Water Quality Standards and Guidance Values [4]			1	5	5	5	5	5	--

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TABLE 3

GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS [1,2]
APRIL 2021
Former Albion MGP Site
Albion, New York

Notes

1. Only detected compounds are presented. Detections are shown in **bold.** Highlighted cells indicate the concentration exceeds the respective screening criteria.
2. Samples analyzed for VOCs in accordance with U.S. EPA Methods 8260B or 8260C (2021) by Eurofins TestAmerica of Buffalo, New York.
3. "<" indicates constituent was not detected at a concentration equal to or greater than the laboratory reporting limit shown.
4. Division of Water 1998. Technical and Operational Guidance Series 1.1.1. June. Groundwater Standard Values for groundwater as a drinking source are shown where available; Guidance Values are shown where no Standard Value is available. Available at: https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

Abbreviations

-- = not applicable
BTEX = benzene, toluene, ethylbenzene, and xylenes
DUP = field duplicate sample
J = the analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit.
µg/L = micrograms per liter
U.S. EPA = United States Environmental Protection Agency
VOCs = volatile organic compounds

TABLE 4

GROUNDWATER ANALYTICAL RESULTS - POLYCYCLIC AROMATIC HYDROCARBONS [1,2]
APRIL 2021
Former Albion MGP Site
Albion, New York

Results in micrograms per liter (µg/L)

Well ID	Sample ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo[g,h,i]perylene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Naphthalene
MW-1	MW-1-111919	11/19/2019	<5.0 [3]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-1-20200922	9/22/2020	**24 J**	**20 J**	**5.8 J**	<25	<25	<25	<25	<25	<25	<25	**6.4 J**	**26**	<25	**32**	**4.2 J**	**14 J**
	MW-1-041221	4/12/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-5	MW-5-111919/DUP	11/19/2019	**34 / 38**	**33 / 36**	**6.2 / 6.4 J**	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	**5.6 / 5.4 J**	**45 / 46**	<5.0 / <25	**23 / 23 J**	**3.1 J / 3.5 J**	**24 / 25**
	MW-5-20200922/DUP	9/22/2020	**22 J / 22 J**	**19 J / 19 J**	**6.0 J / 6.0 J**	<25 /<25	<25 /<25	<25 /<25	<25 /<25	<25 /<25	<25 /<25	<25 /<25	**6.2 J / 6.2 J**	**24 J / 24 J**	<25 /<25	**29 J+ / 29 J+**	**4.0 J / 4.0 J**	**13 J / 13 J**
	MW-5-041221/DUP	4/12/2021	**16 J / 14 J**	**21 J / 17 J**	**3.7 J / 2.8 J**	<25 /<25	<25 /<25	<25 /<25	<25 /<25	<25 /<25	<25 /<25	<25 /<25	**3.9 J / 3.5 J**	**20 J / 17 J**	<25 / <25	**12 J / 6.7 J**	**2.2 J / 2.2 J**	**41 / 31**
MW-6	MW-6-112019	11/20/2019	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-6-20200923	9/23/2020	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-6-041221	4/12/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-8R	MW-8R-112019	11/20/2019	**57**	**21 J**	<25	<25	<25	<25	<25	<25	<25	<25	**4.2 J**	**34**	<25	**33**	**2.1 J**	**900**
	MW-8R-20200923	9/23/2020	**95 J**	**8.1 J**	**7.6 J**	<100	<100	<100	<100	<100	<100	<100	<100	**41 J**	<100	<100 U	<100	**2,300**
	MW-8R-041321	4/13/2021	**65 J**	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	**860**
MW-9R	MW-9R-112019	11/20/2019	**6.1 J+**	**0.38 J+**	**0.65 J+**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**3.0 J+**	<5.0	**2.8 J+**	<5.0	**50**
	MW-9R-20200923	9/23/2020	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	MW-9R-041321	4/13/2021	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
MW-10R	MW-10-111919	11/19/2019	**0.86 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.99 J**
	MW-10R-20200922	9/22/2020	**1.0 J+**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 U	<5.0	**3.5 J+**
	MW-10R-041221	4/12/2021	**0.73 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**3.4 J**
Ambient Water Quality Standards and Guidance Values [4]			20	--	50	0.002	0.002	0.002	0.002	--	0.002	--	50	50	0.002	50	50	10

TABLE 4

GROUNDWATER ANALYTICAL RESULTS - POLYCYCLIC AROMATIC HYDROCARBONS [1,2]
APRIL 2021
Former Albion MGP Site
Albion, New York

Notes
1. Only detected compounds are presented. Detections are shown in **bold**. Highlighted cells indicate the concentration exceeds the respective screening criteria.
2. Samples analyzed for PAHs in accordance with U.S. EPA Method 8270D by Eurofins TestAmerica of Buffalo, New York.
3. "<" indicates constituent was not detected at a concentration equal to or greater than the laboratory reporting limit shown.
4. Division of Water 1998. Technical and Operational Guidance Series 1.1.1. June. Groundwater Standard Values for groundwater as a drinking source are shown where available; Guidance Values are shown where no Standard Value is available. Available at https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

Abbreviations
-- = not applicable
DUP = field duplicate sample
J = the analyte detected at a concentration less than the reporting limit and greater than or equal to the method detection limit
J+ = the reported concentration may be estimated high
µg/L = micrograms per liter
PAH = polycyclic aromatic hydrocarbons
U = The analyte was detected at a concentration below the reporting limit, but due to a detection of the compound in the associated laboratory method blank the detection is not considered valid
U.S. EPA = United States Environmental Protection Agency

TABLE 5

GROUNDWATER ANALYTICAL RESULTS - TOTAL CYANIDE [1,2]
APRIL 2021
Former Albion MGP Site
Albion, New York

Results in milligrams per liter (mg/L)

Well ID	Sample ID	Sample Date	Cyanide, Total
MW-1	MW-1-111919	11/19/2019	**0.098**
	MW-1-20200922	9/22/2020	**0.11**
	MW-1-041221	4/12/2021	**0.10**
MW-5	MW-5-111919/DUP	11/19/2019	**0.16 / 0.16**
	MW-5-20200922/DUP	9/22/2020	**0.21 / 0.22**
	MW-5-041221/DUP	4/12/2021	**0.18 / 0.17**
MW-6	MW-6-112019	11/20/2019	**0.041**
	MW-6-20200923	9/23/2020	**0.068**
	MW-6-041221	4/12/2021	**0.013**
MW-8R	MW-8R-112019	11/20/2019	**0.21**
	MW-8R-20200923	9/23/2020	**0.15**
	MW-8R-041321	4/13/2021	**0.17**
MW-9R	MW-9R-112019	11/20/2019	**0.054**
	MW-9R-20200923	9/23/2020	**0.080**
	MW-9R-041321	4/13/2021	**0.096**
MW-10R	MW-10-111919	11/19/2019	**0.010**
	MW-10R-20200922	9/22/2020	**0.030**
	MW-10R-041221	4/12/2021	**0.024**
Ambient Water Quality Standards and Guidance Values [3]			0.2

Notes

1. Only detected compounds are presented. Detections are shown in **bold**. Highlighted cells indicate the concentration exceeds the respective screening criteria.
2. Samples analyzed Total Cyanide in accordance with Standard Method 4500-CN-C/E by Eurofins TestAmerica of North Canton, Ohio.
3. Division of Water 1998. Technical and Operational Guidance Series 1.1.1. June. Groundwater Standard Value for groundwater as a drinking source is shown. Available at https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

Abbreviations

DUP = field duplicate
mg/L = milligrams per liter

TABLE 6

PRECISION DATA SUMMARY
APRIL 2021
Former Albion MGP Site
Albion, New York

Results reported in (ug/L)

Primary Sample ID	Duplicate Sample ID	Collection Date	Compound[1]	Primary Sample		Duplicate Sample		RPD[2]	Absolute Difference Between
				Reporting Limit	Sample Result	Reporting Limit	Sample Result		
MW-5-041221	MW-50-041221	4/12/2021	Benzene	1.0	28	1.0	28	0.0	NA
		4/12/2021	Toluene	1.0	3.2	1.0	2.8	13.3	NA
		4/12/2021	Ethylbenzene	1.0	11	1.0	10	9.5	NA
		4/12/2021	m & p-Xylene	2.0	6.4	2.0	5.6	13.3	NA
		4/12/2021	o-Xylene	1.0	8.4	1.0	8.1	3.6	NA
		4/12/2021	Total Xylenes	2.0	15	2.0	14	6.9	NA
		4/12/2021	BTEX	2.0	57	2.0	55	3.6	NA
		4/12/2021	Acenaphthene	25	16 J	25	14 J	NA	2.0
		4/12/2021	Acenaphthylene	25	21 J	25	17 J	NA	4.0
		4/12/2021	Anthracene	25	3.7 J	25	2.8 J	NA	0.90
		4/12/2021	Fluoranthene	25	3.9 J	25	3.5 J	NA	0.40
		4/12/2021	Fluorene	25	20 J	25	17 J	NA	3.0
		4/12/2021	Naphthalene	25	41	25	31	NA	10
		4/12/2021	Phenanthrene	25	12 J	25	6.7 J	NA	5.3
		4/12/2021	Pyrene	25	2.2 J	25	2.2 J	NA	0.00
		4/12/2021	Total Cyanide	0.010	0.18	0.010	0.17	5.7	NA

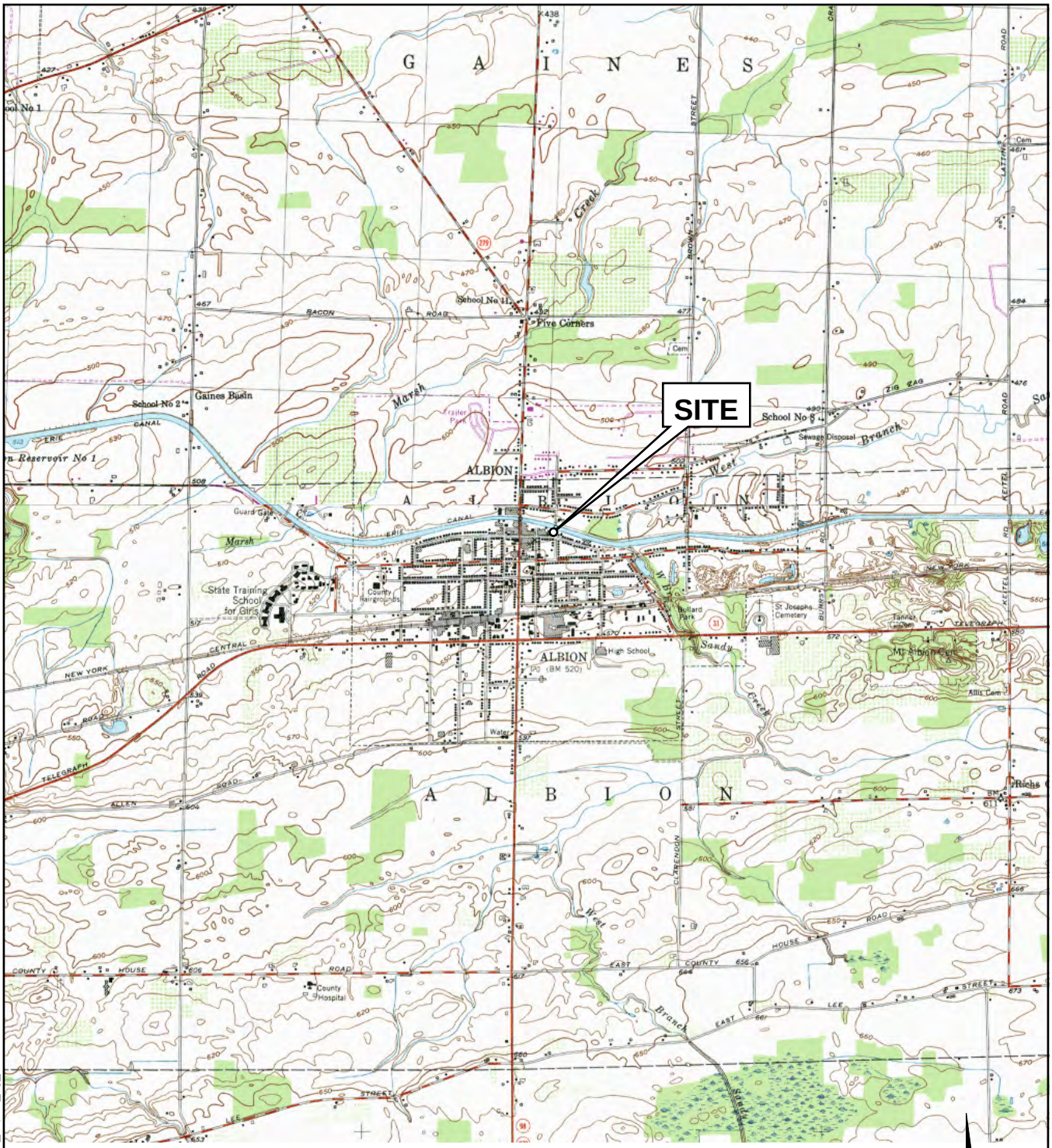
Notes

1. Only compounds detected in at least one of the primary or duplicate samples are shown.
2. Relative Percent Difference (RPD) is calculated by: $$RPD\% = \left| \frac{2(S_1 - S_2)}{S_1 + S_2} \right| \times 100$$

   where S1 = primary sample concentration and S2 = duplicate sample concentration.
   Duplicate results are acceptable when the RPD between the results is less than 30% for **organics** or 20% for **inorganics.**
3. RPD is not applicable when one or both sample results are less than two times the reporting limit (RL) for **organics** or less than 5 \ times the RL for the **inorganics**. When the RPD is not applicable, duplicate results are acceptable when:
   - **both results are positive**: the absolute difference between the results is less than the RL.
   - **one non-detection (ND) and one positive result:** the absolute difference between the positive results and the reporting limit of the ND is less than the RL of the ND.

wood.

FIGURES



0 1.0 Mile

(approximate)

N

New York State

Site Location

SITE VICINITY MAP
Albion Former MGP Site
Albion, New York

wood.

By: KLU

Date: 05/13/2021

Proj. No. 0078000050.04

Figure 1

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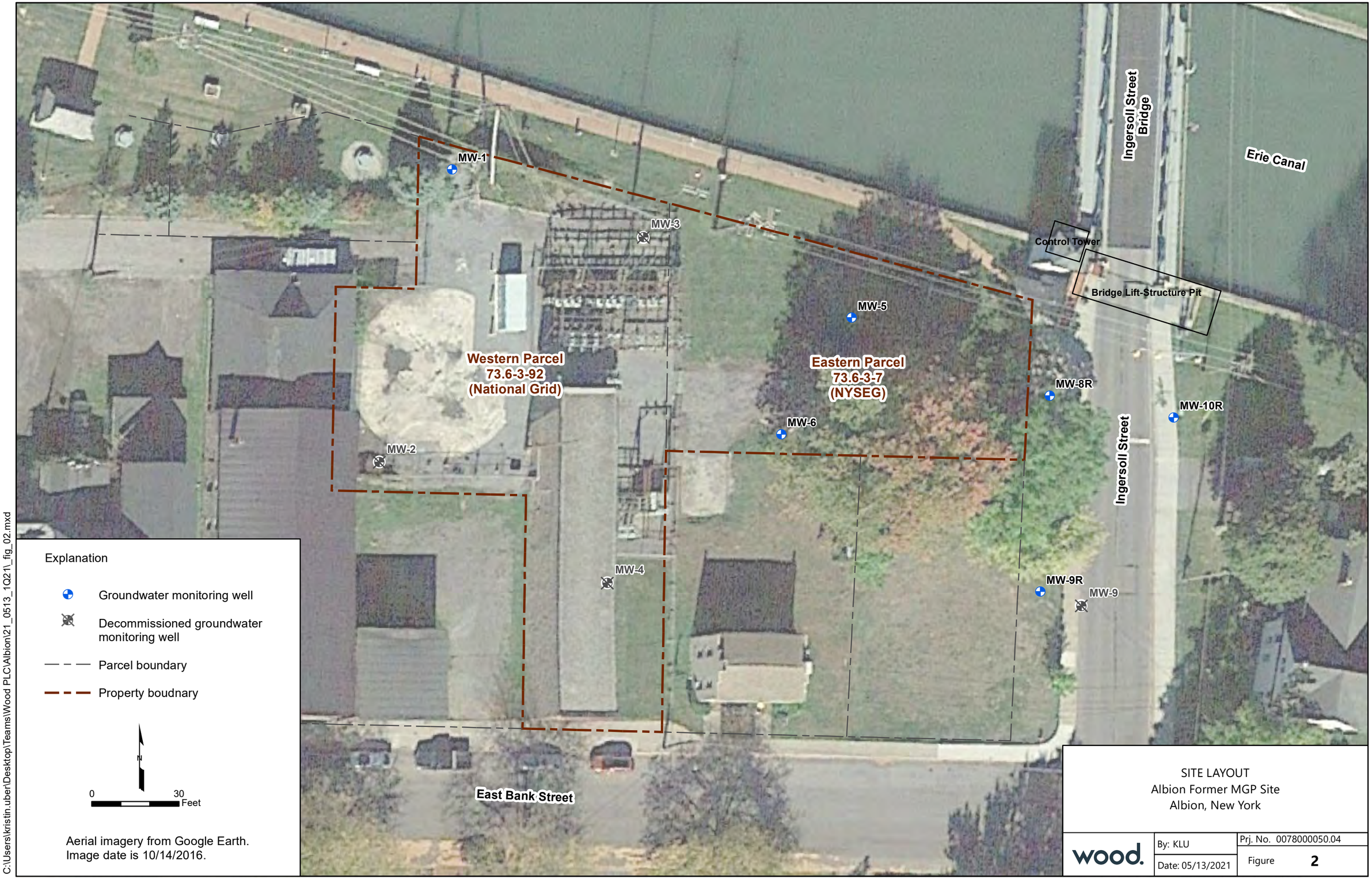

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SITE LAYOUT
Albion Former MGP Site
Albion, New York

wood.

By: KLU

Date: 05/13/2021

Prj. No. 0078000050.04

Figure 2

MW-1
505.28

MW-3

MW-5
503.92

Western Parcel
73.6-3-92
(National Grid)

Eastern Parcel
73.6-3-7
(NYSEG)

505

MW-6
504.80

MW-8R
502.80

MW-10R
501.87

MW-2

504

503

502

MW-4

MW-9R
501.55

MW-9

Control Tower

Bridge Lift-Structure Pit

Ingersoll Street
Bridge

Erie Canal

Ingersoll Street

East Bank Street

Explanation

- Groundwater monitoring well
- Decommissioned groundwater monitoring well
- Parcel boundary
- Property boudnary

Note:
1. Water levels were measured on April 12, 2021 prior to sampling

N

0 30 Feet

Aerial imagery from Google Earth.
Image date is 10/14/2016.

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POTENTIOMETRIC SURFACE MAP
APRIL 2021
Albion Former MGP Site
Albion, New York

wood.

By: KLU

Date: 05/13/2021

Prj. No. 0078000050.04

Figure 3

MW-1	
Date	4/12/2021
Total BTEX	<2.0
Acenaphthene	<5.0
Fluorene	<5.0
Acenaphthylene	<5.0
Anthracene	<5.0
Fluoranthene	<5.0
Naphthalene	<5.0
Phenanthrene	<5.0
Pyrene	<5.0
Cyanide, Total	0.1

MW-5	
Date	4/12/2021
Total BTEX	57/55
Acenaphthene	16 J/14 J
Fluorene	20 J/17 J
Acenaphthylene	21 J/17 J
Anthracene	3.7 J/2.8 J
Fluoranthene	3.9 J/3.5 J
Naphthalene	41/31
Phenanthrene	12 J/6.7 J
Pyrene	2.2 J/2.2 J
Cyanide, Total	0.18/0.17

MW-8R	
Date	4/13/2021
Total BTEX	2,800
Acenaphthene	65 J
Fluorene	<500
Acenaphthylene	<500
Anthracene	<500
Fluoranthene	<500
Naphthalene	860
Phenanthrene	<500
Pyrene	<500
Cyanide, Total	0.17

MW-10R	
Date	4/12/2021
Total BTEX	23
Acenaphthene	0.73 J
Fluorene	<5.0
Acenaphthylene	<5.0
Anthracene	<5.0
Fluoranthene	<5.0
Naphthalene	3.4 J
Phenanthrene	<5.0
Pyrene	<5.0
Cyanide, Total	0.024

MW-6	
Date	4/12/2021
Total BTEX	<2.0
Acenaphthene	<5.0
Fluorene	<5.0
Acenaphthylene	<5.0
Anthracene	<5.0
Fluoranthene	<5.0
Naphthalene	<5.0
Phenanthrene	<5.0
Pyrene	<5.0
Cyanide, Total	0.013

MW-9R	
Date	4/13/2021
Total BTEX	<2.0
Acenaphthene	<25
Fluorene	<25
Acenaphthylene	<25
Anthracene	<25
Fluoranthene	<25
Naphthalene	<25
Phenanthrene	<25
Pyrene	<25
Cyanide, Total	0.096

MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-8R
MW-9R
MW-9
MW-10R

Western Parcel
73.6-3-92
(National Grid)

Eastern Parcel
73.6-3-7
(NYSEG)

Ingersoll Street Bridge

Erie Canal

Control Tower

Bridge Lift-Structure Pit

Ingersoll Street

East Bank Street

Explanation

- Groundwater monitoring well
- Decommissioned groundwater monitoring well
- Parcel boundary
- Property boudnary

MW-5 ← Well ID

MW-5	
Date	4/12/2021
Total BTEX	57/55
Acenaphthene	16 J/14 J
Fluorene	20 J/17 J
Acenaphthylene	21 J/17 J
Anthracene	3.7 J/2.8 J
Fluoranthene	3.9 J/3.5 J
Naphthalene	41/31
Phenanthrene	12 J/6.7 J
Pyrene	2.2 J/2.2 J
Cyanide, Total	0.18/0.17

Concentration in micrograms per liter (µg/L)

Concentration in milligrams per liter (mg/L)

Duplicate data

Abbreviations:
EPA Environmental Protection Agency
VOCs volatile organic compounds
J the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample
BTEX Benzene, Toluene, Ethylbenzene, Xylenes

N

0 30 Feet

Aerial imagery from Google Earth. Image date is 10/14/2016.

Notes:
1. Samples analyzed for VOCs, PAHs, and Total Cyanide in accordance with U.S. EPA Methods 8260B, 8270D, and SIM4500-CN-C/E, respectively, by Eurofins TestAmerica of Buffalo, New York.
2. "<" indicates constituent was not detected at a concentration equal to or greater than the laboratory reporting limit shown.

GROUNDWATER ANALYTICAL RESULTS
APRIL 2021
Albion Former MGP Site
Albion, New York

wood.

By: KLU
Date: 05/19/2021
Prj. No. 0078000050.04
Figure 4

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APPENDIX A

Groundwater Sampling Records

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name: National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #: 0078000050.03 | **Sampled By:** A. Lyons | **Date:** 4/13/21

Well Number/ID: MW-9R | **Sample ID:** MW-9R-041321 | **Duplicate ID:** N/A

Method of Purging: Low-Flow | **Method of Sampling:** Low-Flow | **Intake Depth:** ~~12'~~ 14 bgs due to lower TD

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	V0fy9mmw	4/9/21	4/13/21
Turbidimeter				

Casing Purge Volume Calculations

A. Depth to Water = 12.95 ft.	D. Water Column (B-A) = 4.18 ft.	Depth to Water After Sampling = 15.20 ft.
B. Well Total Depth = 17.13 ft.	E. 1 Well Volume (C^2 x 0.0408 x D) = 0.68 gal.	Actual Volume Purged (from below) = _____ gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes (3 x E) = 2.05 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	V_p = **N/A**	ml	**Pumping System Volume Calculation**
Tubing Inside Diameter	D = **N/A**	in.	Pumping System Volume (V_S)
Tubing Length	L = **N/A**	in.	$V_S = V_P + \pi * D^2 / 4 * L * 16.39$ ml/in³
Conversion from Inches³ to ml	1 in³ = 16.39	ml	_____ V_S = (_____) + (3.1415 * _____ ² / 4) * (_____) * 16.39

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume ☐ gal ☐ ml	Flow Rate ☐ gpm ☐ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
905	Initial	100	10.00	1.50	3.19	7.63	-92	0.0	12.95
910	500		9.80	1.61	3.10	7.48	-80	0.0	13.20
915	1000		9.76	1.60	3.37	7.36	-39	0.0	13.32
920	1500		9.92	1.21	2.40	7.24	-17	0.0	~~13.30~~ 13.52 AL
925	2000		9.82	2.68	2.09	7.22	-10	0.0	13.66
930	2500		9.86	2.69	1.85	7.29	-7	0.0	13.81
935	3000		9.84	2.64	1.72	7.33	0	0.0	13.95
940	3500		9.86	2.52	1.40	7.36	-3	0.0	14.06
945	4000	↓	9.95	2.41	1.11	7.34	0	0.0	14.18

Remarks: TOC PID = N/A

Purge pumping system volume before recording parameters on dedicated pumps only.

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature: Alyssa Lyons | **Checked By:**

Purging/Sampling Date: 4/13/21 **Well Number/ID:** MW-9R

ADDITIONAL FIELD PARAMETER COLLECTION LOG for MICRO-PURGE SAMPLING (continued from frontside)

Purging Data			Water Quality Parameters (within range for 3 consecutive readings)						
Time (24 hr)	Purge Volume ☐ gal ☐ ml	Flow Rate ☐ gpm ☐ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
950	4500	100	9.88	2.24	0.98	7.33	2	6.0	14.40
955	5000	↓	9.95	2.37	0.89	7.32	05	0.0	14.49
1000	5500		9.93	2.46	0.90	7.32	7	0.0	14.58
1005	6000		9.92	2.59	0.94	7.31	10	0.0	14.71
1010	6500		9.91	2.57	0.88	7.31	11	0.0	1480
1015	7000		9.93	2.55	0.89	7.34	12	0.0	14.95
1020			Sampled MW-9R-041321						
1025									

Remarks: Slight odor, Sample clear

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name: National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #: 0078000050.03

Sampled By: AL

Date: 4/12/21

Well Number/ID: MW-6

Sample ID: MW-6-041221

Duplicate ID: N/A

Method of Purging: Low-Flow

Method of Sampling: Low-Flow

Intake Depth: 13.5' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	VOFyamnw	4/9/21	4/12/21
Turbidimeter				

Casing Purge Volume Calculations

A. Depth to Water = 5.86 ft.	D. Water Column (B-A) = 9.54 ft.	Depth to Water After Sampling = 6.25 ft.
B. Well Total Depth = 15.40 ft.	E. 1 Well Volume (C^2 x 0.0408 x D) = 0.78 gal.	Actual Volume Purged (from below) = 3750 gal/(ml)
C. Well Diameter = 2 in.	F. 3 Well Volumes (3 x E) = 2.34 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	V_P = N/A ml	**Pumping System Volume Calculation**
Tubing Inside Diameter	D = N/A in.	Pumping System Volume (V_S)
Tubing Length	L = N/A in.	$V_S = V_P + \pi * D^2 / 4 * L * 16.39$ ml/in³
Conversion from Inches³ to ml	1 in³ = 16.39 ml	_____ V_S = (_____) + (3.1415 * _____ ² / 4) * (_____) * 16.39

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume ☐ gal ☑ ml	Flow Rate ☐ gpm ☐ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1655	Initial	125	11.17	0.479	5.99	7.02	152	329	5.86
1700	625	↓	10.69	0.649	1.87	6.82	159	300	6.25
1705	1250		10.58	0.688	1.09	6.90	152	266	6.25
1710	1875		10.53	0.704	0.73	6.95	148	270	6.25
1715	2500		10.42	0.709	0.62	6.96	146	135	6.25
1720	3125		10.36	0.712	0.59	6.98	146	33.1	6.25
1725	3750		10.32	0.717	0.66	6.98	148	6.0	6.25
1730			Sampled MW-6-041221						

Remarks: TOC PID = N/A Sample clear, odorless

Purge pumping system volume before recording parameters on dedicated pumps only.

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature: [signature]

Checked By:

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name: National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #: 0078000050.03 | **Sampled By:** AL | **Date:** 4/12/21

Well Number/ID: MW-10R | **Sample ID:** MW-10R-041221 | **Duplicate ID:** N/A

Method of Purging: Low-Flow | **Method of Sampling:** Low-Flow | **Intake Depth:** 16' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	V0FY9mmw	4/9/21	4/12/21
Turbidimeter				

Casing Purge Volume Calculations

A. Depth to Water = 13.94 ft.	D. Water Column (B-A) = 4.82 ft.	Depth to Water After Sampling = 14.75 ft.
B. Well Total Depth = 18.76 ft.	E. 1 Well Volume (C^2 x 0.0408 x D) = 0.79 gal.	Actual Volume Purged (from below) = _____ gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes (3 x E) = 2.36 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	V_P = N/A ml	**Pumping System Volume Calculation**
Tubing Inside Diameter	D = N/A in.	Pumping System Volume (V_S)
Tubing Length	L = N/A in.	$V_S = V_P + \pi * D^2 / 4 * L * 16.39$ ml/in³
Conversion from Inches³ to ml	1 in³ = 16.39 ml	_____ V_S = (_____) + (3.1415 * _____ ² / 4) * (_____) * 16.39

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume ☐ gal ☑ ml	Flow Rate ☐ gpm ☑ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1530	Initial	150	11.15	1.50	2.21	7.02	10	30.3	13.94
1535	750	130	11.30	2.96	3.00	6.65	51	21.1	14.30
1540	1400	130	11.57	3.17	2.33	6.66	73	17.7	14.15
1545	2050	150	11.67	3.32	1.87	6.67	84	15.5	14.09
1550	2800	130	11.67	4.29	3.88	6.73	100	15.8	14.20
1555	3450	↓	11.59	4.73	8.17	6.77	116	13.8	14.35
1600	4100	↓	11.59	5.10	3.26	6.78	123	12.7	14.49
1605	4750	↓	11.57	5.36	3.30	6.80	128	12.2	14.60
1610	5400	↓	11.58	5.80	1.48	6.80	131	11.7	14.71

Remarks: TOC PID = N/A

Purge pumping system volume before recording parameters on dedicated pumps only.

[1] Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature: | **Checked By:**

Purging/Sampling Date: 4/12/21 **Well Number/ID:** MW-10R

ADDITIONAL FIELD PARAMETER COLLECTION LOG for MICRO-PURGE SAMPLING (continued from frontside)

Purging Data			Water Quality Parameters (within range for 3 consecutive readings)						
Time (24 hr)	Purge Volume ☐ gal ☑ ml	Flow Rate ☐ gpm ☑ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	~~Remarks~~
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1615	6050	130	11.59	6.01	1.50	6.80	136	10.8	14.75
1620	6700	↓	11.62	6.17	0.99	6.80	133	10.7	14.75
1625	7350		11.63	6.28	1.10	6.81	133	10.2	14.75
1630	8000		11.63	6.35	0.78	6.81	135	9.7	14.75
1635	8650		11.63	6.40	0.77	6.82	137	9.0	14.75
1640	9300		11.65	6.39	0.62	6.82	135	9.0	14.75
	Sampled		MW-10R-041221						

Remarks: Sample was clear and has odor.

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name: National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #:	Sampled By:	Date:
0078000050.03	AL	4/12/21

Well Number/ID:	Sample ID:	Duplicate ID:
MW-1	MW-1- 041221	N/A

Method of Purging:	Method of Sampling:	Intake Depth:
Low-Flow	Low-Flow	13' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	V0FY9mmW	4/9/21	4/12/21
Turbidimeter				

Casing Purge Volume Calculations

A. Depth to Water = 9.76 ft.	D. Water Column (B-A) = 10.34 ft.	Depth to Water After Sampling = 11.15 ft.
B. Well Total Depth = 20.10 ft.	E. 1 Well Volume (C^2 x 0.0408 x D) = 1.69 gal.	Actual Volume Purged (from below) = 5000 gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes (3 x E) = 5.06 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	V_p = N/A	ml
Tubing Inside Diameter	D = N/A	in.
Tubing Length	L = N/A	in.
Conversion from Inches³ to ml	1 in³ = 16.39	ml

Pumping System Volume Calculation

Pumping System Volume (V_S)

$V_S = V_P + \pi * D^2 / 4 * L * 16.39$ ml/in³

_____ V_S = (_____) + (3.1415 * _____ ² / 4) * (_____) * 16.39

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume ☐ gal ☑ ml	Flow Rate ☐ gpm ☑ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1310	Initial	100	16.83	0.640	2.84	5.80	309	7.7	9.76
1315	500		15.84	0.662	2.20	6.07	309	6.9	10.51
1320	1000		15.30	0.682	2.01	6.20	311	14.7	10.57
1325	1500		14.77	0.684	2.40	6.35	315	19.0	10.70
1330	2000		14.52	0.688	1.93	6.40	315	18.4	10.76
1335	2500		14.22	0.693	1.78	6.46	316	14.1	10.86
1340	3000		13.97	0.704	1.54	6.50	316	11.0	10.93
1345	3500		12.54	0.736	1.51	6.54	316	10.4	10.97
1350	4000		12.28	0.743	1.40	6.58	315	8.5	10.99

Remarks: TOC PID = N/A

Purge pumping system volume before recording parameters on dedicated pumps only.

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature: _____ **Checked By:** _____

Purging/Sampling Date: 4/12/21 **Well Number/ID:** MW-1

ADDITIONAL FIELD PARAMETER COLLECTION LOG for MICRO-PURGE SAMPLING (continued from frontside)

Purging Data			Water Quality Parameters (within range for 3 consecutive readings)						
Time (24 hr)	Purge Volume ☐ gal ☑ ml	Flow Rate ☐ gpm ☐ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1355	4500	100	12.21	0.750	1.28	6.60	314	7.7	11.05
1400	5000	↓	12.09	0.758	1.20	6.61	311	6.8	11.06
1405			Sampled MW-1-041221						
1410									

Remarks: Sampled MW-1-041221 @ 1405
No odor present, Sample clear

[1] Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name: National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #: 0078000050.03

Sampled By: AL

Date: 4/12/21

Well Number/ID: MW-5

Sample ID: MW-5-041221

Duplicate ID: MW-50-041221

Method of Purging: Low-Flow

Method of Sampling: Low-Flow

Intake Depth: 14.5' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	10FX9mmw	4/9/21	4/12/21
Turbidimeter				

Casing Purge Volume Calculations

A. Depth to Water = 9.22 ft.	D. Water Column (B-A) = 7.04 ft.	Depth to Water After Sampling = 10.95 ft.
B. Well Total Depth = 16.26 ft.	E. 1 Well Volume (C^2 x 0.0408 x D) = 1.15 gal.	Actual Volume Purged (from below) = 3600 gal/ml
C. Well Diameter = 2 in.	F. 3 Well Volumes (3 x E) = 3.45 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	V_p = N/A	ml	**Pumping System Volume Calculation**
Tubing Inside Diameter	D = N/A	in.	Pumping System Volume (V_S)
Tubing Length	L = N/A	in.	$V_S = V_P + \pi * D^2 / 4 * L * 16.39$ ml/in³
Conversion from Inches³ to ml	1 in³ = 16.39	ml	_____ V_S = (_____) + (3.1415 * _____ ²/ 4) * (_____) * 16.39

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume ☐ gal ☐ ml	Flow Rate ☐ gpm ☑ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1425	Initial	120	13.10	0.973	2.63	6.99	207	27.0	9.22
1430	600	↓	11.01	0.999	2.10	6.82	11	24.1	10.80
1435	1200		10.72	1.05	1.69	6.75	-23	23.0	10.31
1440	1800		10.74	1.04	1.32	6.74	-58	15.2	10.45
1445	2400		10.76	1.04	1.56	6.93	-70	12.1	10.56
1450	3000		10.74	1.04	1.66	6.86	-75	11.5	10.70
1455	3600	↓	10.85	1.03	1.75	6.88	-83	8.3	10.79
1500		Sampled	MW-5-041221						
1505		Sampled	MW-50-041221						

Remarks: TOC PID = N/A

Odor present, Sample clear

Purge pumping system volume before recording parameters on dedicated pumps only.

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature: _____ **Checked By:** _____

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name: National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #: 0078000050.03

Sampled By: AL

Date: 4/13/21

Well Number/ID: MW-8R

Sample ID: MW-8R- 041321

Duplicate ID: N/A

Method of Purging: Low-Flow

Method of Sampling: Low-Flow

Intake Depth: 16' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U52	V0FX9mmw	4/9/21	4/13/21
Turbidimeter				

Casing Purge Volume Calculations

A. Depth to Water = 12.63 ft.	D. Water Column (B-A) = 7.98 ft.	Depth to Water After Sampling = 13.54 ft.
B. Well Total Depth = 20.71 ft.	E. 1 Well Volume (C^2 x 0.0408 x D) = 1.30 gal.	Actual Volume Purged (from below) = 15000 gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes (3 x E) = 3.91 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	V_p = **N/A** ml	**Pumping System Volume Calculation**
Tubing Inside Diameter	D = **N/A** in.	Pumping System Volume (V_S)
Tubing Length	L = **N/A** in.	$V_S = V_P + \pi * D^2 / 4 * L * 16.39$ ml/in³
Conversion from Inches³ to ml	1 in³ = 16.39 ml	3.91 V_S = ( ) + (3.1415 * ^{2} / 4) * ( ) * 16.39

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume ☐ gal ☐ ml	Flow Rate ☐ gpm ☐ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
700	Initial	150	10.27	2.83	1.52	6.26	2	2.6	12.63
705	750	↓	10.25	2.84	1.35	6.50	-44	1.1	12.90
710	1500		10.33	2.83	1.14	6.56	-58	0.5	12.90
715	2250		10.33	2.81	0.91	6.60	-70	0.1	13.02
720	3000		10.35	2.78	0.78	6.64	-79	0.0	13.11
725	3750		10.35	2.74	0.71	6.68	-85	0.0	13.18
730	4500		10.37	2.71	0.71	6.82	-89	0.0	13.25
735	5250		10.38	2.64	0.71	6.76	-93	0.0	13.33
740	6000	↓	10.38	2.58	0.65	6.78	-97	0.0	13.39

Remarks: TOC PID = NA

Purge pumping system volume before recording parameters on dedicated pumps only.

[1] Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature:

Checked By:

Purging/Sampling Date: 4/13/21 **Well Number/ID:** MW-8R

ADDITIONAL FIELD PARAMETER COLLECTION LOG for MICRO-PURGE SAMPLING (continued from frontside)

Purging Data			Water Quality Parameters (within range for 3 consecutive readings)						
Time (24 hr)	Purge Volume ☐ gal ☑ ml	Flow Rate ☐ gpm ☑ ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization[1]:	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
745	6750	150	10.36	2.48	0.63	6.80	-102	0.0	13.95
750	7500	↓	10.40	2.40	0.62	6.82	-105	0.0	13.45
755	8250		10.43	2.25	0.63	6.87	-111	0.0	13.45
800	9000		10.45	2.16	0.60	6.90	-116	0.0	13.45
805	9750		10.49	2.08	0.59	6.93	-120	0.0	13.45
810	10500		10.53	2.01	0.59	6.96	-124	0.0	13.45
815	11250		10.50	1.96	0.58	6.98	-128	0.0	13.45
820	12000		10.52	1.88	0.58	7.02	-132	0.0	13.45
825	12750		10.52	1.83	0.58	7.13	-140	0.0	13.45
830	13500		10.54	1.79	0.58	7.26	-149	0.0	13.45
835	14250		10.55	1.77	0.58	7.27	-151	0.0	13.45
840	15000		10.53	1.77	0.58	7.28	-153	0.0	13.45
845			Sampled MW-8R-041321						

Remarks: Sample clear, has odor

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

wood.

DAILY FIELD RECORD

Project and Task Number: 007800050	Date: 4/12/21
Project Name: National Grid Site	Weather: Steady rain, 50°FS
Location: Albion, NY	Field Activity: Groundwater Sampling
Recorded By: Amelia Lyons	

PERSONNEL: Name	Company	Time In	Time Out
Amelia Lyons	Wood	1200	1745

PERSONAL SAFETY CHECKLIST

✓	Steel-toed Boots	✓	Hard Hat		Tyvek Coveralls
✓	Rubber Gloves	✓	Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
1200pm	A. Lyons onsite, meet with rep from National Grid. Tailgate safety meeting and review HASP, see Field Sheet for details.
1215pm	locate wells and open

well	DTW	DTB
mw-6	5.94 AL	
mw-5	~~9.57~~ 9.22	16.26
mw-8R	12.73	20.71
mw-10R	13.94	18.76
mw-9R	13.15	17.13
mw-1	9.76	20.10

☆ DTW meter decanned with alconox and DI water between each well.

Canal is partially drained. depth to bank from concrete abutment is 13.60.

APPENDIX B

Analytical Laboratory Report

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-183241-1
Client Project/Site: Albion, NY Groundwater Project

For:
Wood E&I Solutions Inc
180 Grand Avenue
Suite 1100
Oakland, California 94612

Attn: Mr. Alex Rosenthal

Authorized for release by:
4/23/2021 5:54:04 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Wood E&I Solutions Inc
Job ID: 480-183241-1
Project/Site: Albion, NY Groundwater Project

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

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

Job ID: 480-183241-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-183241-1

Comments
No additional comments.

Receipt
The samples were received on 4/13/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8R-041321 (480-183241-4), (480-183241-E-4 MS) and (480-183241-E-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/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: MW-5-041221 (480-183241-2), MW-9R-041321 (480-183241-5) and MW-50-041221 (480-183241-7). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: MW-8R-041321 (480-183241-4). Elevated reporting limits (RLs) are provided.

Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 480-576385 and analytical batch 480-576615 recovered outside control limits for the following analytes: Benzo[a]pyrene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: MW-8R-041321 (480-183241-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-576385.

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

Detection Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-183241-1

Client Sample ID: MW-1-041221 — Lab Sample ID: 480-183241-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.10		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

Client Sample ID: MW-5-041221 — Lab Sample ID: 480-183241-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	28		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	3.2		1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	11		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	6.4		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	8.4		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	15		2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	57		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	16	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	21	J	25	1.9	ug/L	5		8270D	Total/NA
Anthracene	3.7	J	25	1.4	ug/L	5		8270D	Total/NA
Fluoranthene	3.9	J	25	2.0	ug/L	5		8270D	Total/NA
Fluorene	20	J	25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	41		25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	12	J	25	2.2	ug/L	5		8270D	Total/NA
Pyrene	2.2	J	25	1.7	ug/L	5		8270D	Total/NA
Cyanide, Total	0.18		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

Client Sample ID: MW-6-041221 — Lab Sample ID: 480-183241-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.013		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

Client Sample ID: MW-8R-041321 — Lab Sample ID: 480-183241-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2000	F1	50	21	ug/L	50		8260C	Total/NA
Toluene	45	J	50	26	ug/L	50		8260C	Total/NA
Ethylbenzene	130		50	37	ug/L	50		8260C	Total/NA
m-Xylene & p-Xylene	470		100	33	ug/L	50		8260C	Total/NA
o-Xylene	180		50	38	ug/L	50		8260C	Total/NA
Xylenes, Total	650		100	33	ug/L	50		8260C	Total/NA
Total BTEX	2800		100	50	ug/L	50		8260C	Total/NA
Acenaphthene	65	J	500	41	ug/L	100		8270D	Total/NA
Naphthalene	860		500	76	ug/L	100		8270D	Total/NA
Cyanide, Total	0.17		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

Client Sample ID: MW-9R-041321 — Lab Sample ID: 480-183241-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.096		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

Client Sample ID: MW-10R-041221 — Lab Sample ID: 480-183241-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	23		1.0	0.41	ug/L	1		8260C	Total/NA
Total BTEX	23		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	0.73	J	5.0	0.41	ug/L	1		8270D	Total/NA
Naphthalene	3.4	J	5.0	0.76	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-183241-1

Client Sample ID: MW-10R-041221 (Continued)

Lab Sample ID: 480-183241-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.024		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

Client Sample ID: MW-50-041221

Lab Sample ID: 480-183241-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	28		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	2.8		1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	10		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.6		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	8.1		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	14		2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	55		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	14	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	17	J	25	1.9	ug/L	5		8270D	Total/NA
Anthracene	2.8	J	25	1.4	ug/L	5		8270D	Total/NA
Fluoranthene	3.5	J	25	2.0	ug/L	5		8270D	Total/NA
Fluorene	17	J	25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	31		25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	6.7	J	25	2.2	ug/L	5		8270D	Total/NA
Pyrene	2.2	J	25	1.7	ug/L	5		8270D	Total/NA
Cyanide, Total	0.17		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

Client Sample ID: EB-1-041321

Lab Sample ID: 480-183241-8

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-183241-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1-041221
Lab Sample ID: 480-183241-1

Date Collected: 04/12/21 14:05
Matrix: Water
Date Received: 04/13/21 12:00

Method: 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			04/15/21 14:40	1
Toluene	ND		1.0	0.51	ug/L			04/15/21 14:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/21 14:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/15/21 14:40	1
o-Xylene	ND		1.0	0.76	ug/L			04/15/21 14:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/21 14:40	1
Total BTEX	ND		2.0	1.0	ug/L			04/15/21 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/15/21 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*04/15/21 14:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*04/15/21 14:40*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*04/15/21 14:40*	*1*

Method: 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		04/15/21 07:17	04/16/21 18:02	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/15/21 07:17	04/16/21 18:02	1
Anthracene	ND		5.0	0.28	ug/L		04/15/21 07:17	04/16/21 18:02	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 18:02	1
Benzo[a]pyrene	ND	*+	5.0	0.47	ug/L		04/15/21 07:17	04/16/21 18:02	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 18:02	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/15/21 07:17	04/16/21 18:02	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/15/21 07:17	04/16/21 18:02	1
Chrysene	ND		5.0	0.33	ug/L		04/15/21 07:17	04/16/21 18:02	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/15/21 07:17	04/16/21 18:02	1
Fluoranthene	ND		5.0	0.40	ug/L		04/15/21 07:17	04/16/21 18:02	1
Fluorene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 18:02	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/15/21 07:17	04/16/21 18:02	1
Naphthalene	ND		5.0	0.76	ug/L		04/15/21 07:17	04/16/21 18:02	1
Phenanthrene	ND		5.0	0.44	ug/L		04/15/21 07:17	04/16/21 18:02	1
Pyrene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*48 - 120*	*04/15/21 07:17*	*04/16/21 18:02*	*1*
Nitrobenzene-d5 (Surr)	*96*		*46 - 120*	*04/15/21 07:17*	*04/16/21 18:02*	*1*
p-Terphenyl-d14 (Surr)	*76*		*60 - 148*	*04/15/21 07:17*	*04/16/21 18:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.10**		0.010	0.0060	mg/L		04/20/21 17:18	04/20/21 18:32	1

Client Sample ID: MW-5-041221
Lab Sample ID: 480-183241-2

Date Collected: 04/12/21 15:00
Matrix: Water
Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**28**		1.0	0.41	ug/L			04/15/21 15:01	1
Toluene	**3.2**		1.0	0.51	ug/L			04/15/21 15:01	1
Ethylbenzene	**11**		1.0	0.74	ug/L			04/15/21 15:01	1

Client Sample ID: MW-5-041221
Lab Sample ID: 480-183241-2

Date Collected: 04/12/21 15:00
Matrix: Water
Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	6.4		2.0	0.66	ug/L			04/15/21 15:01	1
o-Xylene	8.4		1.0	0.76	ug/L			04/15/21 15:01	1
Xylenes, Total	15		2.0	0.66	ug/L			04/15/21 15:01	1
Total BTEX	57		2.0	1.0	ug/L			04/15/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/15/21 15:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*04/15/21 15:01*	*1*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*04/15/21 15:01*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*04/15/21 15:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	16	J	25	2.1	ug/L		04/15/21 07:17	04/16/21 18:30	5
Acenaphthylene	21	J	25	1.9	ug/L		04/15/21 07:17	04/16/21 18:30	5
Anthracene	3.7	J	25	1.4	ug/L		04/15/21 07:17	04/16/21 18:30	5
Benzo[a]anthracene	ND		25	1.8	ug/L		04/15/21 07:17	04/16/21 18:30	5
Benzo[a]pyrene	ND	*+	25	2.4	ug/L		04/15/21 07:17	04/16/21 18:30	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		04/15/21 07:17	04/16/21 18:30	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		04/15/21 07:17	04/16/21 18:30	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		04/15/21 07:17	04/16/21 18:30	5
Chrysene	ND		25	1.7	ug/L		04/15/21 07:17	04/16/21 18:30	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		04/15/21 07:17	04/16/21 18:30	5
Fluoranthene	3.9	J	25	2.0	ug/L		04/15/21 07:17	04/16/21 18:30	5
Fluorene	20	J	25	1.8	ug/L		04/15/21 07:17	04/16/21 18:30	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		04/15/21 07:17	04/16/21 18:30	5
Naphthalene	41		25	3.8	ug/L		04/15/21 07:17	04/16/21 18:30	5
Phenanthrene	12	J	25	2.2	ug/L		04/15/21 07:17	04/16/21 18:30	5
Pyrene	2.2	J	25	1.7	ug/L		04/15/21 07:17	04/16/21 18:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*48 - 120*	*04/15/21 07:17*	*04/16/21 18:30*	*5*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*	*04/15/21 07:17*	*04/16/21 18:30*	*5*
p-Terphenyl-d14 (Surr)	*73*		*60 - 148*	*04/15/21 07:17*	*04/16/21 18:30*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.18		0.010	0.0060	mg/L		04/20/21 17:18	04/20/21 18:34	1

Client Sample ID: MW-6-041221
Lab Sample ID: 480-183241-3

Date Collected: 04/12/21 17:30
Matrix: Water
Date Received: 04/13/21 12:00

Method: 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			04/15/21 15:24	1
Toluene	ND		1.0	0.51	ug/L			04/15/21 15:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/21 15:24	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/15/21 15:24	1
o-Xylene	ND		1.0	0.76	ug/L			04/15/21 15:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/21 15:24	1

Client Sample ID: MW-6-041221

Lab Sample ID: 480-183241-3

Date Collected: 04/12/21 17:30

Matrix: Water

Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	ND		2.0	1.0	ug/L			04/15/21 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/15/21 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*04/15/21 15:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/15/21 15:24*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*04/15/21 15:24*	*1*

Method: 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		04/15/21 07:17	04/16/21 18:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/15/21 07:17	04/16/21 18:58	1
Anthracene	ND		5.0	0.28	ug/L		04/15/21 07:17	04/16/21 18:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 18:58	1
Benzo[a]pyrene	ND	*+	5.0	0.47	ug/L		04/15/21 07:17	04/16/21 18:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 18:58	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/15/21 07:17	04/16/21 18:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/15/21 07:17	04/16/21 18:58	1
Chrysene	ND		5.0	0.33	ug/L		04/15/21 07:17	04/16/21 18:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/15/21 07:17	04/16/21 18:58	1
Fluoranthene	ND		5.0	0.40	ug/L		04/15/21 07:17	04/16/21 18:58	1
Fluorene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 18:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/15/21 07:17	04/16/21 18:58	1
Naphthalene	ND		5.0	0.76	ug/L		04/15/21 07:17	04/16/21 18:58	1
Phenanthrene	ND		5.0	0.44	ug/L		04/15/21 07:17	04/16/21 18:58	1
Pyrene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*48 - 120*	*04/15/21 07:17*	*04/16/21 18:58*	*1*
Nitrobenzene-d5 (Surr)	*97*		*46 - 120*	*04/15/21 07:17*	*04/16/21 18:58*	*1*
p-Terphenyl-d14 (Surr)	*79*		*60 - 148*	*04/15/21 07:17*	*04/16/21 18:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.013**		0.010	0.0060	mg/L		04/20/21 17:18	04/20/21 18:39	1

Client Sample ID: MW-8R-041321

Lab Sample ID: 480-183241-4

Date Collected: 04/13/21 08:45

Matrix: Water

Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2000**	**F1**	50	21	ug/L			04/15/21 15:46	50
Toluene	**45**	**J**	50	26	ug/L			04/15/21 15:46	50
Ethylbenzene	**130**		50	37	ug/L			04/15/21 15:46	50
m-Xylene & p-Xylene	**470**		100	33	ug/L			04/15/21 15:46	50
o-Xylene	**180**		50	38	ug/L			04/15/21 15:46	50
Xylenes, Total	**650**		100	33	ug/L			04/15/21 15:46	50
Total BTEX	**2800**		100	50	ug/L			04/15/21 15:46	50

Client Sample ID: MW-8R-041321
Lab Sample ID: 480-183241-4

Date Collected: 04/13/21 08:45
Matrix: Water
Date Received: 04/13/21 12:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/15/21 15:46*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*04/15/21 15:46*	*50*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*04/15/21 15:46*	*50*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*04/15/21 15:46*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**65**	**J**	500	41	ug/L		04/15/21 07:17	04/16/21 19:26	100
Acenaphthylene	ND		500	38	ug/L		04/15/21 07:17	04/16/21 19:26	100
Anthracene	ND		500	28	ug/L		04/15/21 07:17	04/16/21 19:26	100
Benzo[a]anthracene	ND		500	36	ug/L		04/15/21 07:17	04/16/21 19:26	100
Benzo[a]pyrene	ND	*+	500	47	ug/L		04/15/21 07:17	04/16/21 19:26	100
Benzo[b]fluoranthene	ND		500	34	ug/L		04/15/21 07:17	04/16/21 19:26	100
Benzo[g,h,i]perylene	ND		500	35	ug/L		04/15/21 07:17	04/16/21 19:26	100
Benzo[k]fluoranthene	ND		500	73	ug/L		04/15/21 07:17	04/16/21 19:26	100
Chrysene	ND		500	33	ug/L		04/15/21 07:17	04/16/21 19:26	100
Dibenz(a,h)anthracene	ND		500	42	ug/L		04/15/21 07:17	04/16/21 19:26	100
Fluoranthene	ND		500	40	ug/L		04/15/21 07:17	04/16/21 19:26	100
Fluorene	ND		500	36	ug/L		04/15/21 07:17	04/16/21 19:26	100
Indeno[1,2,3-cd]pyrene	ND		500	47	ug/L		04/15/21 07:17	04/16/21 19:26	100
Naphthalene	**860**		500	76	ug/L		04/15/21 07:17	04/16/21 19:26	100
Phenanthrene	ND		500	44	ug/L		04/15/21 07:17	04/16/21 19:26	100
Pyrene	ND		500	34	ug/L		04/15/21 07:17	04/16/21 19:26	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*77*		*48 - 120*	*04/15/21 07:17*	*04/16/21 19:26*	*100*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*	*04/15/21 07:17*	*04/16/21 19:26*	*100*
p-Terphenyl-d14 (Surr)	*83*		*60 - 148*	*04/15/21 07:17*	*04/16/21 19:26*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.17**		0.010	0.0060	mg/L		04/22/21 18:06	04/22/21 19:01	1

Client Sample ID: MW-9R-041321
Lab Sample ID: 480-183241-5

Date Collected: 04/13/21 10:20
Matrix: Water
Date Received: 04/13/21 12:00

Method: 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			04/15/21 16:07	1
Toluene	ND		1.0	0.51	ug/L			04/15/21 16:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/21 16:07	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/15/21 16:07	1
o-Xylene	ND		1.0	0.76	ug/L			04/15/21 16:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/21 16:07	1
Total BTEX	ND		2.0	1.0	ug/L			04/15/21 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/15/21 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*04/15/21 16:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/15/21 16:07*	*1*

Client Sample ID: MW-9R-041321
Lab Sample ID: 480-183241-5

Date Collected: 04/13/21 10:20
Matrix: Water
Date Received: 04/13/21 12:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*04/15/21 16:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25	2.1	ug/L		04/15/21 07:17	04/16/21 19:54	5
Acenaphthylene	ND		25	1.9	ug/L		04/15/21 07:17	04/16/21 19:54	5
Anthracene	ND		25	1.4	ug/L		04/15/21 07:17	04/16/21 19:54	5
Benzo[a]anthracene	ND		25	1.8	ug/L		04/15/21 07:17	04/16/21 19:54	5
Benzo[a]pyrene	ND	*+	25	2.4	ug/L		04/15/21 07:17	04/16/21 19:54	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		04/15/21 07:17	04/16/21 19:54	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		04/15/21 07:17	04/16/21 19:54	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		04/15/21 07:17	04/16/21 19:54	5
Chrysene	ND		25	1.7	ug/L		04/15/21 07:17	04/16/21 19:54	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		04/15/21 07:17	04/16/21 19:54	5
Fluoranthene	ND		25	2.0	ug/L		04/15/21 07:17	04/16/21 19:54	5
Fluorene	ND		25	1.8	ug/L		04/15/21 07:17	04/16/21 19:54	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		04/15/21 07:17	04/16/21 19:54	5
Naphthalene	ND		25	3.8	ug/L		04/15/21 07:17	04/16/21 19:54	5
Phenanthrene	ND		25	2.2	ug/L		04/15/21 07:17	04/16/21 19:54	5
Pyrene	ND		25	1.7	ug/L		04/15/21 07:17	04/16/21 19:54	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*103*		*48 - 120*	*04/15/21 07:17*	*04/16/21 19:54*	*5*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*04/15/21 07:17*	*04/16/21 19:54*	*5*
p-Terphenyl-d14 (Surr)	*84*		*60 - 148*	*04/15/21 07:17*	*04/16/21 19:54*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.096**		0.010	0.0060	mg/L		04/20/21 17:18	04/20/21 18:44	1

Client Sample ID: MW-10R-041221
Lab Sample ID: 480-183241-6

Date Collected: 04/12/21 16:45
Matrix: Water
Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**23**		1.0	0.41	ug/L			04/15/21 16:30	1
Toluene	ND		1.0	0.51	ug/L			04/15/21 16:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/21 16:30	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/15/21 16:30	1
o-Xylene	ND		1.0	0.76	ug/L			04/15/21 16:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/21 16:30	1
Total BTEX	**23**		2.0	1.0	ug/L			04/15/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/15/21 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*04/15/21 16:30*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*04/15/21 16:30*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/15/21 16:30*	*1*

Client Sample ID: MW-10R-041221

Lab Sample ID: 480-183241-6

Date Collected: 04/12/21 16:45

Matrix: Water

Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.73**	**J**	5.0	0.41	ug/L		04/15/21 07:17	04/16/21 20:22	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/15/21 07:17	04/16/21 20:22	1
Anthracene	ND		5.0	0.28	ug/L		04/15/21 07:17	04/16/21 20:22	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 20:22	1
Benzo[a]pyrene	ND	*+	5.0	0.47	ug/L		04/15/21 07:17	04/16/21 20:22	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 20:22	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/15/21 07:17	04/16/21 20:22	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/15/21 07:17	04/16/21 20:22	1
Chrysene	ND		5.0	0.33	ug/L		04/15/21 07:17	04/16/21 20:22	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/15/21 07:17	04/16/21 20:22	1
Fluoranthene	ND		5.0	0.40	ug/L		04/15/21 07:17	04/16/21 20:22	1
Fluorene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 20:22	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/15/21 07:17	04/16/21 20:22	1
Naphthalene	**3.4**	**J**	5.0	0.76	ug/L		04/15/21 07:17	04/16/21 20:22	1
Phenanthrene	ND		5.0	0.44	ug/L		04/15/21 07:17	04/16/21 20:22	1
Pyrene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*48 - 120*	*04/15/21 07:17*	*04/16/21 20:22*	*1*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*	*04/15/21 07:17*	*04/16/21 20:22*	*1*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*04/15/21 07:17*	*04/16/21 20:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.024**		0.010	0.0060	mg/L		04/22/21 18:06	04/22/21 19:08	1

Client Sample ID: MW-50-041221

Lab Sample ID: 480-183241-7

Date Collected: 04/12/21 15:05

Matrix: Water

Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**28**		1.0	0.41	ug/L			04/15/21 16:52	1
Toluene	**2.8**		1.0	0.51	ug/L			04/15/21 16:52	1
Ethylbenzene	**10**		1.0	0.74	ug/L			04/15/21 16:52	1
m-Xylene & p-Xylene	**5.6**		2.0	0.66	ug/L			04/15/21 16:52	1
o-Xylene	**8.1**		1.0	0.76	ug/L			04/15/21 16:52	1
Xylenes, Total	**14**		2.0	0.66	ug/L			04/15/21 16:52	1
Total BTEX	**55**		2.0	1.0	ug/L			04/15/21 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/15/21 16:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*04/15/21 16:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/15/21 16:52*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*04/15/21 16:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**14**	**J**	25	2.1	ug/L		04/15/21 07:17	04/16/21 20:51	5
Acenaphthylene	**17**	**J**	25	1.9	ug/L		04/15/21 07:17	04/16/21 20:51	5
Anthracene	**2.8**	**J**	25	1.4	ug/L		04/15/21 07:17	04/16/21 20:51	5

Client Sample ID: MW-50-041221
Lab Sample ID: 480-183241-7

Date Collected: 04/12/21 15:05
Matrix: Water
Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		25	1.8	ug/L		04/15/21 07:17	04/16/21 20:51	5
Benzo[a]pyrene	ND	*+	25	2.4	ug/L		04/15/21 07:17	04/16/21 20:51	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		04/15/21 07:17	04/16/21 20:51	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		04/15/21 07:17	04/16/21 20:51	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		04/15/21 07:17	04/16/21 20:51	5
Chrysene	ND		25	1.7	ug/L		04/15/21 07:17	04/16/21 20:51	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		04/15/21 07:17	04/16/21 20:51	5
Fluoranthene	**3.5**	**J**	25	2.0	ug/L		04/15/21 07:17	04/16/21 20:51	5
Fluorene	**17**	**J**	25	1.8	ug/L		04/15/21 07:17	04/16/21 20:51	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		04/15/21 07:17	04/16/21 20:51	5
Naphthalene	**31**		25	3.8	ug/L		04/15/21 07:17	04/16/21 20:51	5
Phenanthrene	**6.7**	**J**	25	2.2	ug/L		04/15/21 07:17	04/16/21 20:51	5
Pyrene	**2.2**	**J**	25	1.7	ug/L		04/15/21 07:17	04/16/21 20:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*48 - 120*	*04/15/21 07:17*	*04/16/21 20:51*	*5*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*04/15/21 07:17*	*04/16/21 20:51*	*5*
p-Terphenyl-d14 (Surr)	*74*		*60 - 148*	*04/15/21 07:17*	*04/16/21 20:51*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.17**		0.010	0.0060	mg/L		04/20/21 17:18	04/20/21 18:46	1

Client Sample ID: EB-1-041321
Lab Sample ID: 480-183241-8

Date Collected: 04/13/21 10:40
Matrix: Water
Date Received: 04/13/21 12:00

Method: 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			04/15/21 17:14	1
Toluene	ND		1.0	0.51	ug/L			04/15/21 17:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/21 17:14	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/15/21 17:14	1
o-Xylene	ND		1.0	0.76	ug/L			04/15/21 17:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/21 17:14	1
Total BTEX	ND		2.0	1.0	ug/L			04/15/21 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/15/21 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*04/15/21 17:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*04/15/21 17:14*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*04/15/21 17:14*	*1*

Method: 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		04/15/21 07:17	04/16/21 21:19	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/15/21 07:17	04/16/21 21:19	1
Anthracene	ND		5.0	0.28	ug/L		04/15/21 07:17	04/16/21 21:19	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 21:19	1
Benzo[a]pyrene	ND	*+	5.0	0.47	ug/L		04/15/21 07:17	04/16/21 21:19	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 21:19	1

Client Sample ID: EB-1-041321

Lab Sample ID: 480-183241-8

Date Collected: 04/13/21 10:40

Matrix: Water

Date Received: 04/13/21 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/15/21 07:17	04/16/21 21:19	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/15/21 07:17	04/16/21 21:19	1
Chrysene	ND		5.0	0.33	ug/L		04/15/21 07:17	04/16/21 21:19	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/15/21 07:17	04/16/21 21:19	1
Fluoranthene	ND		5.0	0.40	ug/L		04/15/21 07:17	04/16/21 21:19	1
Fluorene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 21:19	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/15/21 07:17	04/16/21 21:19	1
Naphthalene	ND		5.0	0.76	ug/L		04/15/21 07:17	04/16/21 21:19	1
Phenanthrene	ND		5.0	0.44	ug/L		04/15/21 07:17	04/16/21 21:19	1
Pyrene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*48 - 120*	*04/15/21 07:17*	*04/16/21 21:19*	*1*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*	*04/15/21 07:17*	*04/16/21 21:19*	*1*
p-Terphenyl-d14 (Surr)	*109*		*60 - 148*	*04/15/21 07:17*	*04/16/21 21:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		04/22/21 18:06	04/22/21 19:10	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-183241-9

Date Collected: 04/13/21 07:00

Matrix: Water

Date Received: 04/13/21 12:00

Method: 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			04/15/21 17:36	1
Toluene	ND		1.0	0.51	ug/L			04/15/21 17:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/21 17:36	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/15/21 17:36	1
o-Xylene	ND		1.0	0.76	ug/L			04/15/21 17:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/21 17:36	1
Total BTEX	ND		2.0	1.0	ug/L			04/15/21 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/15/21 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*04/15/21 17:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*04/15/21 17:36*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*04/15/21 17:36*	*1*

Surrogate Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-183241-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-183241-1	MW-1-041221	98	93	95	95
480-183241-2	MW-5-041221	107	94	111	96
480-183241-3	MW-6-041221	102	96	100	99
480-183241-4	MW-8R-041321	106	97	111	99
480-183241-4 MS	MW-8R-041321	108	95	113	100
480-183241-4 MSD	MW-8R-041321	105	97	102	105
480-183241-5	MW-9R-041321	103	98	103	99
480-183241-6	MW-10R-041221	104	100	107	102
480-183241-7	MW-50-041221	100	97	100	99
480-183241-8	EB-1-041321	100	94	99	96
480-183241-9	TRIP BLANK	99	96	99	96
LCS 480-576397/5	Lab Control Sample	104	92	103	98
MB 480-576397/7	Method Blank	100	96	98	97

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(60-148)
480-183241-1	MW-1-041221	105	96	76
480-183241-2	MW-5-041221	97	80	73
480-183241-3	MW-6-041221	106	97	79
480-183241-4	MW-8R-041321	77	88	83
480-183241-5	MW-9R-041321	103	89	84
480-183241-6	MW-10R-041221	100	88	77
480-183241-7	MW-50-041221	97	89	74
480-183241-8	EB-1-041321	107	101	109
LCS 480-576385/2-A	Lab Control Sample	102	98	106
LCSD 480-576385/3-A	Lab Control Sample Dup	104	101	108
MB 480-576385/1-A	Method Blank	103	92	105

Surrogate Legend

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

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

Lab Sample ID: MB 480-576397/7
Matrix: Water
Analysis Batch: 576397

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			04/15/21 14:16	1
Toluene	ND		1.0	0.51	ug/L			04/15/21 14:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/21 14:16	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/15/21 14:16	1
o-Xylene	ND		1.0	0.76	ug/L			04/15/21 14:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/21 14:16	1
Total BTEX	ND		2.0	1.0	ug/L			04/15/21 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/15/21 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*04/15/21 14:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*04/15/21 14:16*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*04/15/21 14:16*	*1*

Lab Sample ID: LCS 480-576397/5
Matrix: Water
Analysis Batch: 576397

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	22.2		ug/L		89	71 - 124		
Toluene			25.0	23.0		ug/L		92	80 - 122		
Ethylbenzene			25.0	23.1		ug/L		93	77 - 123		
m-Xylene & p-Xylene			25.0	23.9		ug/L		95	76 - 122		
o-Xylene			25.0	24.4		ug/L		98	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: 480-183241-4 MS
Matrix: Water
Analysis Batch: 576397

Client Sample ID: MW-8R-041321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	2000	F1	1250	2820	F1	ug/L		68	71 - 124		
Toluene	45	J	1250	1200		ug/L		93	80 - 122		
Ethylbenzene	130		1250	1300		ug/L		93	77 - 123		
m-Xylene & p-Xylene	470		1250	1620		ug/L		92	76 - 122		
o-Xylene	180		1250	1380		ug/L		96	76 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

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

Lab Sample ID: 480-183241-4 MSD
Matrix: Water
Analysis Batch: 576397

Client Sample ID: MW-8R-041321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	2000	F1	1250	3100		ug/L		90	71 - 124	9	13
Toluene	45	J	1250	1310		ug/L		101	80 - 122	9	15
Ethylbenzene	130		1250	1420		ug/L		103	77 - 123	9	15
m-Xylene & p-Xylene	470		1250	1770		ug/L		104	76 - 122	9	16
o-Xylene	180		1250	1590		ug/L		113	76 - 122	14	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

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

Lab Sample ID: MB 480-576385/1-A
Matrix: Water
Analysis Batch: 576615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		04/15/21 07:17	04/16/21 13:20	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/15/21 07:17	04/16/21 13:20	1
Anthracene	ND		5.0	0.28	ug/L		04/15/21 07:17	04/16/21 13:20	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 13:20	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		04/15/21 07:17	04/16/21 13:20	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 13:20	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/15/21 07:17	04/16/21 13:20	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/15/21 07:17	04/16/21 13:20	1
Chrysene	ND		5.0	0.33	ug/L		04/15/21 07:17	04/16/21 13:20	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/15/21 07:17	04/16/21 13:20	1
Fluoranthene	ND		5.0	0.40	ug/L		04/15/21 07:17	04/16/21 13:20	1
Fluorene	ND		5.0	0.36	ug/L		04/15/21 07:17	04/16/21 13:20	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/15/21 07:17	04/16/21 13:20	1
Naphthalene	ND		5.0	0.76	ug/L		04/15/21 07:17	04/16/21 13:20	1
Phenanthrene	ND		5.0	0.44	ug/L		04/15/21 07:17	04/16/21 13:20	1
Pyrene	ND		5.0	0.34	ug/L		04/15/21 07:17	04/16/21 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*48 - 120*	*04/15/21 07:17*	*04/16/21 13:20*	*1*
Nitrobenzene-d5 (Surr)	*92*		*46 - 120*	*04/15/21 07:17*	*04/16/21 13:20*	*1*
p-Terphenyl-d14 (Surr)	*105*		*60 - 148*	*04/15/21 07:17*	*04/16/21 13:20*	*1*

Lab Sample ID: LCS 480-576385/2-A
Matrix: Water
Analysis Batch: 576615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	32.6		ug/L		102	60 - 120
Acenaphthylene	32.0	33.4		ug/L		104	63 - 120

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

Lab Sample ID: LCS 480-576385/2-A
Matrix: Water
Analysis Batch: 576615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576385

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			32.0	33.1		ug/L		103	67 - 120		
Benzo[a]anthracene			32.0	35.4		ug/L		110	70 - 121		
Benzo[a]pyrene			32.0	38.8		ug/L		121	60 - 123		
Benzo[b]fluoranthene			32.0	35.9		ug/L		112	66 - 126		
Benzo[g,h,i]perylene			32.0	37.5		ug/L		117	66 - 150		
Benzo[k]fluoranthene			32.0	34.9		ug/L		109	65 - 124		
Chrysene			32.0	35.4		ug/L		111	69 - 120		
Dibenz(a,h)anthracene			32.0	36.5		ug/L		114	65 - 135		
Fluoranthene			32.0	35.1		ug/L		110	69 - 126		
Fluorene			32.0	33.6		ug/L		105	66 - 120		
Indeno[1,2,3-cd]pyrene			32.0	37.1		ug/L		116	69 - 146		
Naphthalene			32.0	29.0		ug/L		91	57 - 120		
Phenanthrene			32.0	34.5		ug/L		108	68 - 120		
Pyrene			32.0	35.7		ug/L		111	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*102*		*48 - 120*
Nitrobenzene-d5 (Surr)	*98*		*46 - 120*
p-Terphenyl-d14 (Surr)	*106*		*60 - 148*

Lab Sample ID: LCSD 480-576385/3-A
Matrix: Water
Analysis Batch: 576615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576385

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	33.3		ug/L		104	60 - 120	2	24
Acenaphthylene			32.0	34.4		ug/L		108	63 - 120	3	18
Anthracene			32.0	36.1		ug/L		113	67 - 120	9	15
Benzo[a]anthracene			32.0	36.3		ug/L		113	70 - 121	3	15
Benzo[a]pyrene			32.0	40.3	*+	ug/L		126	60 - 123	4	15
Benzo[b]fluoranthene			32.0	36.2		ug/L		113	66 - 126	1	15
Benzo[g,h,i]perylene			32.0	38.2		ug/L		119	66 - 150	2	15
Benzo[k]fluoranthene			32.0	35.3		ug/L		110	65 - 124	1	22
Chrysene			32.0	35.6		ug/L		111	69 - 120	1	15
Dibenz(a,h)anthracene			32.0	37.1		ug/L		116	65 - 135	2	15
Fluoranthene			32.0	35.9		ug/L		112	69 - 126	2	15
Fluorene			32.0	34.0		ug/L		106	66 - 120	1	15
Indeno[1,2,3-cd]pyrene			32.0	37.2		ug/L		116	69 - 146	0	15
Naphthalene			32.0	30.5		ug/L		95	57 - 120	5	29
Phenanthrene			32.0	35.4		ug/L		111	68 - 120	3	15
Pyrene			32.0	37.1		ug/L		116	70 - 125	4	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*104*		*48 - 120*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*
p-Terphenyl-d14 (Surr)	*108*		*60 - 148*

Method: 4500 CN E-2011 - Cyanide, Total: Colorimetric Method

Lab Sample ID: MB 240-482011/1-A
Matrix: Water
Analysis Batch: 482023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		04/20/21 17:18	04/20/21 18:03	1

Lab Sample ID: LCS 240-482011/2-A
Matrix: Water
Analysis Batch: 482023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.238	0.236		mg/L		99	85 - 115

Lab Sample ID: 480-183241-2 MS
Matrix: Water
Analysis Batch: 482023

Client Sample ID: MW-5-041221
Prep Type: Total/NA
Prep Batch: 482011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.18		0.0400	0.219	4	mg/L		104	22 - 135

Lab Sample ID: 480-183241-2 MSD
Matrix: Water
Analysis Batch: 482023

Client Sample ID: MW-5-041221
Prep Type: Total/NA
Prep Batch: 482011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.18		0.0400	0.197	4	mg/L		50	22 - 135	10	40

Lab Sample ID: MRL 240-482023/10
Matrix: Water
Analysis Batch: 482023

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.0116		mg/L		116	70 - 130

Lab Sample ID: MB 240-482411/1-A
Matrix: Water
Analysis Batch: 482429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		04/22/21 18:06	04/22/21 18:55	1

Lab Sample ID: LCS 240-482411/2-A
Matrix: Water
Analysis Batch: 482429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.238	0.209		mg/L		88	85 - 115

Lab Sample ID: 480-183241-4 MS
Matrix: Water
Analysis Batch: 482429

Client Sample ID: MW-8R-041321
Prep Type: Total/NA
Prep Batch: 482411

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.17		0.0400	0.213	4	mg/L		107	22 - 135

Client: Wood E&I Solutions Inc
Job ID: 480-183241-1
Project/Site: Albion, NY Groundwater Project

Method: 4500 CN E-2011 - Cyanide, Total: Colorimetric Method

Lab Sample ID: 480-183241-4 MSD
Client Sample ID: MW-8R-041321
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 482429
Prep Batch: 482411

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.17		0.0400	0.199	4	mg/L		72	22 - 135	7	40

Lab Sample ID: MRL 240-482429/10
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 482429

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.0112		mg/L		112	70 - 130

GC/MS VOA

Analysis Batch: 576397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-1	MW-1-041221	Total/NA	Water	8260C	
480-183241-2	MW-5-041221	Total/NA	Water	8260C	
480-183241-3	MW-6-041221	Total/NA	Water	8260C	
480-183241-4	MW-8R-041321	Total/NA	Water	8260C	
480-183241-5	MW-9R-041321	Total/NA	Water	8260C	
480-183241-6	MW-10R-041221	Total/NA	Water	8260C	
480-183241-7	MW-50-041221	Total/NA	Water	8260C	
480-183241-8	EB-1-041321	Total/NA	Water	8260C	
480-183241-9	TRIP BLANK	Total/NA	Water	8260C	
MB 480-576397/7	Method Blank	Total/NA	Water	8260C	
LCS 480-576397/5	Lab Control Sample	Total/NA	Water	8260C	
480-183241-4 MS	MW-8R-041321	Total/NA	Water	8260C	
480-183241-4 MSD	MW-8R-041321	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 576385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-1	MW-1-041221	Total/NA	Water	3510C	
480-183241-2	MW-5-041221	Total/NA	Water	3510C	
480-183241-3	MW-6-041221	Total/NA	Water	3510C	
480-183241-4	MW-8R-041321	Total/NA	Water	3510C	
480-183241-5	MW-9R-041321	Total/NA	Water	3510C	
480-183241-6	MW-10R-041221	Total/NA	Water	3510C	
480-183241-7	MW-50-041221	Total/NA	Water	3510C	
480-183241-8	EB-1-041321	Total/NA	Water	3510C	
MB 480-576385/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-576385/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-576385/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 576615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-1	MW-1-041221	Total/NA	Water	8270D	576385
480-183241-2	MW-5-041221	Total/NA	Water	8270D	576385
480-183241-3	MW-6-041221	Total/NA	Water	8270D	576385
480-183241-4	MW-8R-041321	Total/NA	Water	8270D	576385
480-183241-5	MW-9R-041321	Total/NA	Water	8270D	576385
480-183241-6	MW-10R-041221	Total/NA	Water	8270D	576385
480-183241-7	MW-50-041221	Total/NA	Water	8270D	576385
480-183241-8	EB-1-041321	Total/NA	Water	8270D	576385
MB 480-576385/1-A	Method Blank	Total/NA	Water	8270D	576385
LCS 480-576385/2-A	Lab Control Sample	Total/NA	Water	8270D	576385
LCSD 480-576385/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	576385

General Chemistry

Prep Batch: 482011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-1	MW-1-041221	Total/NA	Water	Distill/CN	
480-183241-2	MW-5-041221	Total/NA	Water	Distill/CN	
480-183241-3	MW-6-041221	Total/NA	Water	Distill/CN	
480-183241-5	MW-9R-041321	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 482011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-7	MW-50-041221	Total/NA	Water	Distill/CN	
MB 240-482011/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 240-482011/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-183241-2 MS	MW-5-041221	Total/NA	Water	Distill/CN	
480-183241-2 MSD	MW-5-041221	Total/NA	Water	Distill/CN	

Analysis Batch: 482023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-1	MW-1-041221	Total/NA	Water	4500 CN E-2011	482011
480-183241-2	MW-5-041221	Total/NA	Water	4500 CN E-2011	482011
480-183241-3	MW-6-041221	Total/NA	Water	4500 CN E-2011	482011
480-183241-5	MW-9R-041321	Total/NA	Water	4500 CN E-2011	482011
480-183241-7	MW-50-041221	Total/NA	Water	4500 CN E-2011	482011
MB 240-482011/1-A	Method Blank	Total/NA	Water	4500 CN E-2011	482011
LCS 240-482011/2-A	Lab Control Sample	Total/NA	Water	4500 CN E-2011	482011
MRL 240-482023/10	Lab Control Sample	Total/NA	Water	4500 CN E-2011	
480-183241-2 MS	MW-5-041221	Total/NA	Water	4500 CN E-2011	482011
480-183241-2 MSD	MW-5-041221	Total/NA	Water	4500 CN E-2011	482011

Prep Batch: 482411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-4	MW-8R-041321	Total/NA	Water	Distill/CN	
480-183241-6	MW-10R-041221	Total/NA	Water	Distill/CN	
480-183241-8	EB-1-041321	Total/NA	Water	Distill/CN	
MB 240-482411/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 240-482411/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-183241-4 MS	MW-8R-041321	Total/NA	Water	Distill/CN	
480-183241-4 MSD	MW-8R-041321	Total/NA	Water	Distill/CN	

Analysis Batch: 482429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183241-4	MW-8R-041321	Total/NA	Water	4500 CN E-2011	482411
480-183241-6	MW-10R-041221	Total/NA	Water	4500 CN E-2011	482411
480-183241-8	EB-1-041321	Total/NA	Water	4500 CN E-2011	482411
MB 240-482411/1-A	Method Blank	Total/NA	Water	4500 CN E-2011	482411
LCS 240-482411/2-A	Lab Control Sample	Total/NA	Water	4500 CN E-2011	482411
MRL 240-482429/10	Lab Control Sample	Total/NA	Water	4500 CN E-2011	
480-183241-4 MS	MW-8R-041321	Total/NA	Water	4500 CN E-2011	482411
480-183241-4 MSD	MW-8R-041321	Total/NA	Water	4500 CN E-2011	482411

Lab Chronicle

Client: Wood E&I Solutions Inc
Job ID: 480-183241-1
Project/Site: Albion, NY Groundwater Project

Client Sample ID: MW-1-041221
Lab Sample ID: 480-183241-1
Date Collected: 04/12/21 14:05
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 14:40	CRL	TAL BUF
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		1	576615	04/16/21 18:02	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482011	04/20/21 17:18	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482023	04/20/21 18:32	AGC	TAL CAN

Client Sample ID: MW-5-041221
Lab Sample ID: 480-183241-2
Date Collected: 04/12/21 15:00
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 15:01	CRL	TAL BUF
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		5	576615	04/16/21 18:30	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482011	04/20/21 17:18	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482023	04/20/21 18:34	AGC	TAL CAN

Client Sample ID: MW-6-041221
Lab Sample ID: 480-183241-3
Date Collected: 04/12/21 17:30
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 15:24	CRL	TAL BUF
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		1	576615	04/16/21 18:58	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482011	04/20/21 17:18	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482023	04/20/21 18:39	AGC	TAL CAN

Client Sample ID: MW-8R-041321
Lab Sample ID: 480-183241-4
Date Collected: 04/13/21 08:45
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	576397	04/15/21 15:46	CRL	TAL BUF
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		100	576615	04/16/21 19:26	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482411	04/22/21 18:06	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482429	04/22/21 19:01	AGC	TAL CAN

Client Sample ID: MW-9R-041321
Lab Sample ID: 480-183241-5
Date Collected: 04/13/21 10:20
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 16:07	CRL	TAL BUF

Client Sample ID: MW-9R-041321
Lab Sample ID: 480-183241-5

Date Collected: 04/13/21 10:20
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		5	576615	04/16/21 19:54	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482011	04/20/21 17:18	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482023	04/20/21 18:44	AGC	TAL CAN

Client Sample ID: MW-10R-041221
Lab Sample ID: 480-183241-6

Date Collected: 04/12/21 16:45
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 16:30	CRL	TAL BUF
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		1	576615	04/16/21 20:22	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482411	04/22/21 18:06	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482429	04/22/21 19:08	AGC	TAL CAN

Client Sample ID: MW-50-041221
Lab Sample ID: 480-183241-7

Date Collected: 04/12/21 15:05
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 16:52	CRL	TAL BUF
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		5	576615	04/16/21 20:51	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482011	04/20/21 17:18	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482023	04/20/21 18:46	AGC	TAL CAN

Client Sample ID: EB-1-041321
Lab Sample ID: 480-183241-8

Date Collected: 04/13/21 10:40
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 17:14	CRL	TAL BUF
Total/NA	Prep	3510C			576385	04/15/21 07:17	SMP	TAL BUF
Total/NA	Analysis	8270D		1	576615	04/16/21 21:19	JMM	TAL BUF
Total/NA	Prep	Distill/CN			482411	04/22/21 18:06	AGC	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	482429	04/22/21 19:10	AGC	TAL CAN

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-183241-9

Date Collected: 04/13/21 07:00
Matrix: Water
Date Received: 04/13/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576397	04/15/21 17:36	CRL	TAL BUF

Lab Chronicle

Client: Wood E&I Solutions Inc
Job ID: 480-183241-1
Project/Site: Albion, NY Groundwater Project

Laboratory References:

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

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Wood E&I Solutions Inc
Job ID: 480-183241-1
Project/Site: Albion, NY Groundwater Project

Laboratory: Eurofins TestAmerica, 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	04-01-22

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
8260C		Water	Total BTEX

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Wood E&I Solutions Inc
Job ID: 480-183241-1
Project/Site: Albion, NY Groundwater Project

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
4500 CN E-2011	Cyanide, Total: Colorimetric Method	SM	TAL CAN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL CAN

Protocol References:

None = None

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:

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

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Wood E&I Solutions Inc
Job ID: 480-183241-1
Project/Site: Albion, NY Groundwater Project

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-183241-1	MW-1-041221	Water	04/12/21 14:05	04/13/21 12:00	
480-183241-2	MW-5-041221	Water	04/12/21 15:00	04/13/21 12:00	
480-183241-3	MW-6-041221	Water	04/12/21 17:30	04/13/21 12:00	
480-183241-4	MW-8R-041321	Water	04/13/21 08:45	04/13/21 12:00	
480-183241-5	MW-9R-041321	Water	04/13/21 10:20	04/13/21 12:00	
480-183241-6	MW-10R-041221	Water	04/12/21 16:45	04/13/21 12:00	
480-183241-7	MW-50-041221	Water	04/12/21 15:05	04/13/21 12:00	
480-183241-8	EB-1-041321	Water	04/13/21 10:40	04/13/21 12:00	
480-183241-9	TRIP BLANK	Water	04/13/21 07:00	04/13/21 12:00	

PROJECT NAME: National Grid- Former Albion MGP Site | DATE: | PAGE 1 OF 1

PROJECT NUMBER: 0078000050.03.02B	LABORATORY: Eurofins TestAmerica	CLIENT: Wood Environment & Infrastructure Solutions	REPORTING REQUIREMENTS:
RESULTS TO: Alex Rosenthal	Lab Address: 10 Hazelwood Dr.	ADDRESS: 180 Grand Ave., Suite 1100	
TURNAROUND TIME: Standard	Amherst, NY 14228	Oakland, CA 94612-3702	
SAMPLE SHIPMENT METHOD: Drop off	Lab Contact: Alexander Gilbert	Client Contact: Alex Rosenthal	Geotracker Required: Yes No
	Lab Phone #: (716) 691-2600	D M	Site Specific Global ID No.: / Logcode: AMGO

SAMPLERS (SIGN & PRINT): Amelia Lyons

DATE	TIME	SAMPLE ID	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	MS/MSD	No. of Containers	CONTAINER TYPE AND SIZE	BTEX (8260B)	PAHs (8270D)	Total Cyanide (SN4500-CN-C/E)	ADDITIONAL COMMENTS
4/12/21	1405	MW-1-041221	W	N	N	6	3 40ml vials 1 250 plastic 2 250 ambers	X	X	X	
4/12/21	1500	MW-5-041221						X	X	X	
4/12/21	1730	MW-6-041221						X	X	X	
4/13/21	845	MW-8R-041321						X	X	X	
4/13/21	1020	MW-9R-041321						X	X	X	
4/12/21	1645	MW-10R-041221						X	X	X	
4/12/21	1505	MW-50-041221						X	X	X	
4/13/21	1040	EB-1-041321						X	X	X	
4/12/21	700	TRIP BLANK				2	2 40ml vials	X			

480-183241 Chain of Custody

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME	SAMPLING COMMENTS
SIGNATURE	4/13	1200	SIGNATURE			2.8° C #1
PRINTED NAME: Amelia Lyons			PRINTED NAME: Brenden			
COMPANY: Wood			COMPANY: TA			
SIGNATURE			SIGNATURE			Data Package (circle one): Level II / Level III / Level IV
PRINTED NAME			PRINTED NAME			
COMPANY			COMPANY			

180 Grand Avenue, Suite 1100
Oakland, CA 94612-3753
Tel 510.663.4100 Fax 510.663.4141

wood.

4/23/2021

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

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-62791.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-183241-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 5/10/2021			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Albion, NY Groundwater Project	Project #: 48021262			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

W130

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4500_CN_E/Distill_CN	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1-041221 (480-183241-1)	4/12/21	14:05 Eastern		Water			X	1	
MW-5-041221 (480-183241-2)	4/12/21	15:00 Eastern		Water			X	1	
MW-6-041221 (480-183241-3)	4/12/21	17:30 Eastern		Water			X	1	
MW-8R-041321 (480-183241-4)	4/13/21	08:45 Eastern		Water			X	1	
MW-9R-041321 (480-183241-5)	4/13/21	10:20 Eastern		Water			X	1	
MW-10R-041221 (480-183241-6)	4/12/21	16:45 Eastern		Water			X	1	
MW-50-041221 (480-183241-7)	4/12/21	15:05 Eastern		Water			X	1	
EB-1-041321 (480-183241-8)	4/13/21	10:40 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Matthew Carroll	4/15/21 1700	EA	Matt	4-16-21 940	EA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client ETA Site Name _____ Cooler unpacked by: Mat Snyder

Cooler Received on 4-16-21 Opened on 4-16-21

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 4.2 °C Corrected Cooler Temp. 4.3 °C
   IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were the seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
   -Were tamper/custody seals intact and uncompromised? (Yes) No NA
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes (No)
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? (Yes) No
9. For each sample, does the COC specify preservatives (Y(N)) # of containers (Y)N), and sample type of grab/comp(Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? (Yes) No
11. Sufficient quantity received to perform indicated analyses? (Yes) No
12. Are these work share samples and all listed on the COC? (Yes) No
    If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC022887**
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login Sample Receipt Checklist

Client: Wood E&I Solutions Inc

Job Number: 480-183241-1

Login Number: 183241

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

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	2.8 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

APPENDIX C

Soil Cap Inspection Form

wood.

APPENDIX D

EXAMPLE SITE INSPECTION FORM

Former MPG Site No. 837012
Albion, New York

Date: 4/13/21 Weather: Cloudy, 50°FS
Inspection By: Amelia Lyons Time In: 645
Others On Site: N/A Time Out:

Visual Observations – Soil Cap and Monitoring Well Network:

	YES	NO	Comments
Is the Soil Cap intact?	✓		
Any signs of significant erosion?		✓	
Any signs of tree roots or vegetation damaging the cap?		✓	
Any signs of intrusive work (earth disturbing activities) in the capped area?		✓	
Are the groundwater monitoring wells accessible and intact?	✓		

If maintenance is required to resolve any of the above noted items, describe what actions taken, if any. Were all maintenance items resolved during this site visit? If no, what items remain to be resolved?

monitoring well network is in good repair.

Documentation:

	YES	NO	Comments
Are maintenance records on-site and up-to-date?		✓	
Are monitoring records on-site and up-to-date?		✓	records are with me.

wood.

	YES	NO	Comments
Is the most recent Monitoring and Sampling Plan on-site?		✓	record is kept with me
Is the Site Management Plan on-site?		/	record is kept with me
If there is intrusive work being performed: - Is there a Health and Safety Plan on-site?			N/A
- If the surface area of construction activities is greater than 1 acre in size, is there a Stormwater Pollution Prevention Plan (SWPPP) on-site?			N/A

If maintenance is required to resolve any of the above noted items, describe what actions taken, if any. Were all maintenance items resolved during this site visit? If no, what items remain to be resolved?

All pertinent documents are brought to the site and kept with Wood personel.

Note: This form is provided as an example template only and should be modified and updated as needed to reflect current project conditions.