Mr. Joshuah Klier, G.I.T., M.S.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7014

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: March 10, 2023
Our Ref: 30147041
Subject: **First Quarter 2023 Groundwater Monitoring Report**
General Electric Company and Parker-Hannifin Corporation
Old Erie Canal Site, Clyde, New York
NYSDEC Site No. 859015

Dear Mr. Klier,

On behalf of General Electric Company (GE) and Parker-Hannifin Corporation (P-H), this letter provides summaries of the enhanced reductive dechlorination (ERD) injection and post-injection groundwater monitoring activities recently completed at the Old Erie Canal Site (Site) (New York State Department of Environmental Conservation [NYSDEC] Site No. 859015), located in the Village of Clyde, Town of Galen, Wayne County, New York (**Figure 1**). Specifically, this letter includes summaries of the ERD injection event performed between October 15 and 27, 2022 and the first quarterly post-injection sampling event conducted between January 17 and 26, 2023. Additional details regarding those activities are provided below.

ERD Injection Summary

Remedial Injections

On August 3, 2022, Arcadis of New York, Inc. (Arcadis) submitted the *2022 ERD Injection Work Plan* (ERD Work Plan) to the NYSDEC. NYSDEC provided approval of that document in a letter to GE and P-H dated August 18, 2022. That document proposed the injection of 10,800 pounds of EOS_{PRO} emulsified vegetable oil (EVO) and 4,400 pounds of Evonik EHC® Liquid (EHC-L). At 3% (by volume) solution, the ERD Work Plan proposed the injection of 52,000 gallons of injection solution that would be injected into the subsurface via 11 injection wells (seven existing and four new wells) and 16 new direct push technology (DPT) injection points. Further, the ERD Work Plan indicated that approximately 1,600 to 3,500 gallons of dilute organic substrate would be injected at each overburden well or DPT point, and 1,000 gallons would be injected in each bedrock well, followed by a moderate volume of chase water and bioaugmentation at each DPT injection point or well. The ERD Work Plan also indicated that, if an intended injection well or DPT screened interval was unable to accept the target volume of injection solution, the remaining volume for that location would be redistributed to nearby injection locations or alternate DPT intervals. Accordingly, certain modifications to the injection volumes and locations were made based on observations in the field; however, the target injection weight of EVO and EHC-L was achieved, as further described below. The remainder of the remedial injection activities were performed in accordance with the approach described the ERD Work Plan.

Based on observed field conditions (i.e., injection solution acceptance rate), the injection network proposed in the ERD Work Plan was modified to include 15 overburden injection wells (IW-17, IW-18, IW-20 through IW-23, IW-30, IW-31, IW-33, IW-34, IW-36 through IW-39, and IW-44), four bedrock injection wells (IW-50 through IW-53), and 12 temporary overburden injection points (DPT 1 through DPT-8, DPT-12, DPT-13, and DPT-15). Specifically, 10,800 pounds of EVO were used to prepare approximately 38,700 gallons of 3.5% EVO solution. EVO concentrations were increased to 3.5% from the proposed concentration of 3%, to minimize the injection volumes in wells where surfacing was observed or where target flow rates were not obtainable. EVO solution was injected into overburden injection wells IW-17, IW-18, IW-20 through IW-23, IW-30, IW-31, IW-33, IW-34, IW-36 through IW-39, and IW-44 and temporary overburden injection points DPT-1 through DPT-8 and DPT-10, as indicated in **Table 1**. Per the ERD Work Plan, EHC-L was initially injected into bedrock injection wells IW-50 through IW-53; however due to the limited injection solution acceptance rate, only a small volume of EHC-L solution was injected into these wells. Therefore, the remaining EHC-L solution was adjusted to 5% (by volume) and injected along the top of the bedrock surface at temporary overburden injection points DPT-8, DPT-12, DPT-13, and DPT-15. A total of approximately 2,460 gallons of the EHC-L solution was injected in these well and DPT points, as indicated in **Table 1**.

Following completion of EVO and EHC-L solution injection, bioaugmentation was performed at each overburden injection well (except IW-34, as further discussed below) and overburden DPT point. Specifically, between 50 and 100 gallons of deoxygenated water were injected at each location, followed by one liter of KB-1 bioaugmentation culture and an additional 50 to 100 gallons of deoxygenated water. Bioaugmentation was not completed at IW-34 due to immediate daylighting of solution when bioaugmentation was attempted.

In summary, the target quantities of reagents (i.e., 10,800 pounds EVO and 4,400 pounds of EHC-L) were injected via overburden and bedrock wells and overburden DPT points at the Site. A total of approximately 46,900 gallons of injection solutions and deoxygenated water were injected into 15 overburden injection wells, four bedrock injection wells and 12 overburden DPT injection points.

Injection Monitoring

Per the ERD Work Plan, monitoring activities were performed at certain wells during the performance of the injection activities. Specifically, field personnel collected pre- and post-injection groundwater level measurements, pH, and conductivity data from monitoring wells in the vicinity of the injection wells and DPT points, including monitoring wells MW-1S, MW-4B, MW-4S, MW-6B, MW-6S, MW-13S, MW-14S, MW-and 15S. The pre- and post-injection measurements and dates of those measurements are provided in **Table 2**. In addition, these wells were visually inspected twice each day during the injection activities to monitor for the presence of injection solution in the wells. As summarized in Table 2, injection solution was observed in four monitoring wells (MW-1S, MW-6S, MW-6B, and MW-13S), indicating good distribution of injection solution in the vicinity of those four wells.

January 2023 Quarterly Post-Injection Monitoring and Sampling Event

Per the ERD Work Plan, the first post-injection quarterly monitoring and sampling event was performed in January 2023. The scope of the quarterly monitoring and sampling event involved the following:

- Measurement of groundwater elevations and depth to bottom at 12 source area monitoring wells (i.e., MW-1S, MW-4B, MW-4S, MW-6B, MW-6S, MW-7S, MW-13S, MW-14S, MW-15S, MW-17S, MW-18S, and MW-19S); and

- Collection of groundwater samples via low-flow purging and sampling at the same 12 source area monitoring wells (i.e., MW-1S, MW-4B, MW-4S, MW-6B, MW-6S, MW-7S, MW-13S, MW-14S, MW-15S, MW-17S, MW-18S, and MW-19S).

In addition, although not part of the scope proposed in the ERD Work Plan, monitoring well MW-14B was gauged for the potential presence of non-aqueous phase liquid (NAPL) based on the prior observation of NAPL during installation of that monitoring well in August 2022, and no NAPL was detected. Additional details regarding each of these activities are provided below.

Groundwater Gauging Activities

Arcadis personnel collected depth to water and depth to bottom measurements using surveyed measuring points at the 12 source area monitoring wells (i.e., MW-1S, MW-4B, MW-4S, MW-6B, MW-6S, MW-7S, MW-13S, MW-14S, MW-15S, MW-17S, MW-18S, and MW-19S) on January 17, 2013. The gauging data associated with the January 2023 quarterly monitoring event are presented in **Table 3**. As noted therein, a depth to bottom value was not recorded for MW-4B due to the presence of injection fluids inside the well.

As previously indicated, NAPL was observed in the soil cuttings and wash water during installation of monitoring well MW-14B on August 12, 2022. Based on the prior observation, the well was gauged to determine the potential presence and thickness of NAPL in that well during the quarterly monitoring event. NAPL was not detected in this monitoring well during the January 2023 quarterly monitoring event.

Groundwater Sampling Activities

Arcadis personnel performed low-flow groundwater purging and sampling activities at the 12 source area monitoring wells (i.e., MW-1S, MW-4B, MW-4S, MW-6B, MW-6S, MW-7S, MW-13S, MW-14S, MW-15S, MW-17S, MW-18S, and MW-19S) between January 17 and 26, 2023. The low-flow purging and sampling logs for this event are provided in **Attachment 1.**

The collected groundwater samples (including appropriate quality assurance/quality control samples), were submitted to SGS North America for the following analysis:

- volatile organic compounds (VOCs);
- select metals (total and dissolved iron and manganese);
- general chemistry (total organic carbon, sulfide, and sulfate); and
- dissolved gasses (ethane, ethene, and methane).

The analytical results associated with the collected samples are presented in **Table 4**, which also includes the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Class GA (Class GA) groundwater quality standards/guidance values for comparison purposes. **Table 4** also presents the final field parameters collected at each well prior to sample collection (or the field parameters from immediately before a well went dry). The data for trichloroethene (TCE), its reductive dechlorination products, and other indicators of anaerobic activity (i.e., ethane, ethene, and methane) are also presented on **Figure 1**. The laboratory analytical data reports associated with this monitoring event are provided as **Attachment B**. A summary of the constituents (chlorinated VOCs, other VOCs, and inorganics) that were detected at levels above the corresponding Class GA groundwater standards during the January 2023 quarterly sampling event is provided below.

Chlorinated VOCs

- 1,1-dichloroethane was detected in three of 12 wells at concentrations ranging from 1.3 J micrograms per liter (µg/L) (the J flag indicates an estimated concentration) to 7.0 µg/L. However, this constituent was detected in only one well (MW-17S) at a concentration greater than the Class GA groundwater standard of 5 µg/L.
- 1,1-dichloroethene was detected in one of 12 wells (MW-4B) at a concentration of 212 µg/L, which is also greater than the Class GA groundwater standard of 5 µg/L.
- cis-1,2-dichloroethene was detected in 11 of 12 wells (including one sample duplicate) at concentrations ranging from 2.7 µg/L (with a sample duplicate of 2.9 µg/L) to 48,200 µg/L. Further, this constituent was detected in nine wells (MW-1S, MW-4B, MW-6B, MW-6S, MW-13S, MW-14S, MW-17S, MW-18S, and MW-19S) at concentrations greater than the Class GA groundwater standard of 5 µg/L (ranging from 31.5 µg/L to 48,200 µg/L). The maximum detected concentration was reported for monitoring well MW-4B.
- trans-1,2-dichloroethene was detected in eight of 12 wells at concentrations ranging from 0.69 J µg/L to 289 µg/L. Further, this constituent was detected in four wells (MW-4B, MW-6B, MW-13S, and MW-17S) at concentrations greater than the Class GA groundwater standard of 5 µg/L (ranging from 8.9 µg/L to 289 µg/L). The maximum detected concentration was reported for monitoring well MW-4B.
- TCE was detected in five of 12 wells at concentrations ranging from 3 µg/L to 7,550 µg/L. Further, this constituent was detected in four wells (MW-1S, MW-4B, MW-17S, and MW-19S) at concentrations greater than the Class GA groundwater standard of 5 µg/L (ranging from 5.6 µg/L to 7,550 µg/L). The maximum detected concentration was reported for monitoring well MW-4B.
- Vinyl Chloride was detected in 11 of 12 wells (including one sample duplicate) at concentrations ranging from 1.3 µg/L to 22,500 µg/L. Further, this constituent was detected in 10 wells (MW-1S, MW-4B, MW-6B, MW-6S, MW-7S, MW-13S, MW-14S, MW-15S, MW-17S, and MW-18S) at concentrations greater than the Class GA groundwater standard of 2 µg/L (ranging from 2.2 µg/L [with a sample duplicate of 2.3 µg/L] to 22,500 µg/L). The maximum detected concentration was reported for monitoring well MW-4B.

Other VOCs

- Benzene was detected in one of 12 wells (MW-15S) at a concentration of 3.8 µg/L, which is also greater than the Class GA groundwater standard of 1 µg/L.
- Ethylbenzene was detected in four of 12 wells at concentrations ranging from 2.6 µg/L to 178 J µg/L. However, this constituent was detected in only two wells (MW-4B and MW-6S) at concentrations greater than the Class GA groundwater standard of 5 µg/L (ranging from 67.2 µg/L to 178 J µg/L). The maximum detected concentration was reported for monitoring well MW-4B.
- Toluene was detected in five of 12 wells (MW-4B, MW-6B, MW-6S, MW-14S, and MW-15S) at concentrations ranging from 93.2 µg/L to 4,130 µg/L, all of which were also greater than the Class GA groundwater standard of 5 µg/L. The maximum detected concentration was reported for monitoring well MW-6S.
- Total Xylenes were detected in four of 12 wells (MW-4B, MW-6S, MW-14S, and MW-15S) at concentrations ranging from 11.8 µg/L to 481 µg/L, all of which were also greater than the Class GA groundwater standard of 5 µg/L. The maximum detected concentration was reported for monitoring well MW-4B.

Inorganics

- Iron was detected in 10 of 12 wells (MW-1S, MW-4S, MW-6B, MW-6S, MW-7S, MW-13S, MW-14S, MW-15S, MW-18S, and MW-19S) (including one sample duplicate) at concentrations ranging from 767 µg/L to 134,000 µg/L, all of which were greater than the Class GA groundwater standard of 300 µg/L. The maximum detected concentration was reported for monitoring well MW-6S.
- Iron (filtered) was detected in eight of 12 wells (MW-1S, MW-4S, MW-6B, MW-6S, MW-7S, MW-13S, MW-14S, and MW-15S) (including one sample duplicate) at concentrations ranging from 364 µg/L to 146,000 µg/L, all of which were greater than the Class GA groundwater standard of 300 µg/L. The maximum detected concentration was reported for monitoring well MW-6S.
- Manganese was detected in all 12 wells (including one sample duplicate) at concentrations ranging from 43.5 µg/L to 49,600 µg/L. Further, this constituent was detected in seven wells (including one sample duplicate) (MW-1S, MW-4S, MW-6S, MW-7S, MW-14S, MW-15S, and MW-18S) at concentrations greater than the Class GA groundwater standard of 300 µg/L (ranging from 308 µg/L to 49,600 µg/L). The maximum detected concentration was reported for monitoring well MW-1S.
- Manganese (filtered) was detected in all 12 wells (including one sample duplicate) at concentrations ranging from 28.2 µg/L to 50,000 µg/L. Further, this constituent was detected in six wells (including one sample duplicate) (MW-1S, MW-4S, MW-6S, MW-7S, MW-14S, and MW-15S) at concentrations greater than the Class GA groundwater standard of 300 µg/L (ranging from 481 µg/L to 50,000 µg/L). The maximum detected concentration was reported for monitoring well MW-1S.

Future Activities and Schedule

Per the ERD Work Plan, the second quarterly monitoring event is scheduled for April 2023. The monitoring network for the second quarterly monitoring event will include the 12 source area monitoring wells sampled during the January 2023 quarterly monitoring event, as well as 11 perimeter wells (EMW-2, EMW-4, MW-3B, MW-3S, MW-4C, MW-5B, MW-5S, MW-7B, MW-9S, MW-16B, and MW-16S), three general wells (EMW-3, EMW-5, and MW-8S), and two surface water sampling locations on the New York State barge canal. In accordance with Arcadis' February 7, 2022, proposal to the NYSDEC (as discussed in Section 2.1 of the ERD Work Plan), the collected groundwater samples will continue to be analyzed for VOCs, dissolved gases (ethane, ethene, and methane), TOC, total and dissolved iron and manganese, sulfate, and sulfide. In addition, monitoring well MW-14B will be gauged to determine if NAPL is present in that well. Finally, Arcadis will deploy Min-Trap® sampling devices during the second quarterly monitoring event to aid in evaluating the effectiveness of the bedrock EHC-L injections.

Per Section 7.3 of the Site Management Plan (SMP), the first Periodic Review Report (PRR) for the Site is due sixteen months after issuance of the Certificate of Completion for the Site. As NYSDEC issued the Certificate of Completion on February 2022, the PRR is due in June 2023. As noted in Section 5 of the ERD Work Plan, the PRR will be completed in conformance with the requirements of NYSDEC's Technical Guidance for Site Investigation and Remediation (DER-10) and Section 7.3 of the SMP, including the necessary certification by a licensed New York State Professional Engineer. As the second quarterly monitoring event is scheduled for April 2023, the PRR will also include the results of that quarterly monitoring event, a summary of data trends, a mass reduction evaluation as specified in Section 6.1 of the SMP and any proposed recommendations to the scope and schedule specified in this ERD Work Plan.

Joshuah Klier, G.I.T., M.S.
New York State Department of Environmental Conservation
March 10, 2023

Please contact Ms. Cassie Johnson of P-H or Mr. Lewis Streeter of GE with any questions or comments regarding this report.

Sincerely,
Arcadis of New York, Inc.

Corey Averill
Project Manager

Email: corey.averill@arcadis.com
Direct Line: 315.671.9224

CC. Cassie Johnson, Parker-Hannifin Corporation
Lewis Streeter, General Electric Company
James Nuss, PE, LSP, Arcadis

Enclosures:

- Table 1 – EVO and EHC-L Injection Solution Distribution
- Table 2 – ERD Injection Monitoring Data
- Table 3 – Gauging Data
- Table 4 – Groundwater Monitoring Event Data
- Figure 1 – Groundwater Analytical Map – January 2023
- Attachment 1 – Groundwater Sampling Logs
- Attachment 2 – Groundwater Laboratory Results

Tables

Table 1
EVO and EHC-L Injection Solution Distribution
First Quarter 2023 Groundwater Monitoring Report
Old Erie Canal - NYSDEC Site #859015
124 Columbia Street
Clyde, New York

EVO Solution	
Injection Well ID	Injected Volume (gallons)
IW-17	705
IW-18	400
IW-20	992
IW-21	280
IW-22	523
IW-23	513
IW-30	2,123
IW-31	3,015
IW-33	855
IW-34	115
IW-36	3,140
IW-37	3,128
IW-38	2,629
IW-39	1,493
IW-44	3,919
DPT-1	1,586
DPT-2	1,721
DPT-3	1,538
DPT-4	2,194
DPT-5	1,513
DPT-6	1,613
DPT-7	894
DPT-8	1,745
DPT-10	2,040

EHC-L Solution	
Injection Well ID	Injected Volume (gallons)
IW-50	16
IW-51	1
IW-52	22
IW-53	1
DPT-8	368
DPT-12	365
DPT-13	693
DPT-15	995

Notes:
1) EVO = emulsified vegetable oil
2) EHC-L = Evonik EHC® Liquid
3) IW = injection well
4) DPT = direct push technology

Table 2
ERD Injection Monitoring Data
First Quarter 2023 Groundwater Monitoring Report
Old Erie Canal - NYSDEC Site #859015
124 Columbia Street
Clyde, New York

Well ID	Date of Initial Water Level	Initial Water Level (ft bmp)	Date of Final Water Level	Final Water Level (ft bmp)	Pre-Injection pH	Post-Injection pH	Pre-Injection Specific Conductivity (mS/cm)	Post-Injection Specific Conductivity (mS/cm)	Reagent Visible? EVO/EHC-L
MW-1S	10/18/2022	2.46	10/24/2022	3.02	6.81	8.39	3.74	1.71	EVO
MW-4S	10/14/2022	4.56	10/24/2022	4.55	6.74	8.20	4.02	2.99	No
MW-4B	10/17/2022	4.46	10/24/2022	4.89	6.15	7.61	3.02	2.62	No
MW-6S	10/11/2022	3.52	10/24/2022	0*	6.61	7.70*	4.40	5.55*	EHC-L
MW-6B	10/21/2022	6.21	10/24/2022	0*	7.64	7.59*	7.33	7.70*	EHC-L
MW-13S	10/11/2022	2.42	10/21/2022	2.26	6.85	7.86	2.04	2.20	EVO
MW-14S	10/11/2022	3.10	10/24/2022	2.75	6.75	8.01	3.59	3.33	No
MW-15S	10/11/2022	1.45	10/24/2022	1.64	6.67	8.01	3.68	3.58	No

Notes:

1) * - Monitoring wells were filled to surface with EHC-L solution from adjacent injection wells. The post-injection pH and conductivity readings represent the final readings collected prior to EHC-L solution entering the well.
2) ft bmp - feet below measuring point
3) mS/cm - milli Siemens per centimeter
4) EVO - emulsified vegetable oil
5) EHC-L - Evonik EHC® Liquid

Table 3
Gauging Data
First Quarter 2023 Groundwater Monitoring Report
Old Erie Canal - NYSDEC Site #859015
124 Columbia Street
Clyde, New York

Well ID	Measuring Point Elevation (ft amsl)	Screen Interval (ft bgs)	Date	Depth to Water (ft bmp)	Groundwater Elevation (ft amsl)	Depth to Bottom (ft bmp)
MW-1S	394.16	2.3 - 7.3	January 17, 2023	2.72	391.44	6.88
MW-4S	393.02	10.3 - 20.3	January 17, 2023	4.70	388.32	19.56
MW-4B	392.97	28.9 - 38.9	January 17, 2023	6.16	386.81	--
MW-6S	394.25	5 - 15	January 17, 2023	3.69	390.56	14.28
MW-6B	394.23	29.4 - 39.4	January 17, 2023	6.11	388.12	39.16
MW-7S	396.92	6.5 - 16.5	January 17, 2023	8.47	388.45	18.20
MW-13S	391.53	16.4 - 21.4	January 17, 2023	2.34	389.19	18.78
MW-14S	391.39	16.4 - 21.4	January 17, 2023	2.72	388.67	23.47
MW-15S	390.12	7.7 - 12.7	January 17, 2023	1.66	388.46	14.50
MW-17S	397.48	4.6 - 9.6	January 17, 2023	3.58	393.90	8.06
MW-18S	397.63	3 - 8	January 17, 2023	3.55	394.08	7.26
MW-19S	396.09	3.5 - 8.5	January 17, 2023	3.31	392.78	8.07

Notes:
1) ft bmp - feet below measuring point.
2) bgs - below ground surface.
3) amsl - above mean sea level.
4) Survey data provided from GHD Report Table 3 titled: Water Level Elevation Data November 28, 2006, and Arcadis December 2017 Survey.
5) 2023 Q1 gauging consisted of the 12 source area monitoring wells per the 2022 ERD Injection Work Plan (Arcadis 2022).
There is injection material on the inside of the riser acting as an obstruction.

Table 4
Groundwater Monitoring Event Data
First Quarter 2023 Groundwater Monitoring Report
Old Erie Canal - NYSDEC Site #859015
124 Columbia Street
Clyde, New York

Location ID: Date Collected:	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units	MW-1S 1/17/2023	MW-4B 1/18/2023	MW-4S 1/18/2023	MW-6B 1/18/2023	MW-6S 1/18/2023	MW-7S 1/17/2023	MW-13S 1/18/2023	MW-14S 1/18/2023	MW-15S 1/18/2023	MW-17S 1/17/2023	MW-18S 1/26/2023	MW-19S 1/18/2023
Volatile Organics														
1,1,1-Trichloroethane	5	µg/l	1.0 U	200 U	1.0 U	200 U	20 U	1.0 U [1.0 U]	50 U	2.0 U	1.0 U	5.0 U	1.0 U	1.6
1,1-Dichloroethane	5	µg/l	1.0 U	200 U	1.0 U	200 U	20 U	1.0 U [1.0 U]	50 U	1.3 J	1.8	5.0 U	1.0 U	**7.0**
1,1-Dichloroethene	5	µg/l	1.0 U	**212**	1.0 U	200 U	20 U	1.0 U [1.0 U]	50 U	2.0 U	1.0 U	5.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	µg/l	3.6 J	2000 U	10 U	2000 U	200 U	10 U [10 U]	500 U	20 U	10 U	50 U	10 U	10 U
4-Methyl-2-Pentanone	--	µg/l	5.0 U	1000 U	5.0 U	1000 U	118	5.0 U [5.0 U]	250 U	10 U	5.0 U	25 U	5.0 U	5.0 U
Acetone	50	µg/l	10.5	2000 U	10 U	2000 U	200 U	10 U [10 U]	500 U	20 U	10 U	50 U	10 U	10 U
Benzene	1	µg/l	0.50 U	100 U	0.50 U	100 U	10 U	0.50 U [0.50 U]	25 U	1.0 U	**3.8**	2.5 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	5	µg/l	**50.1**	**48200**	1.0 U	**43200**	**451**	2.7 [2.9]	**6670**	**334**	2.9	**1080**	**31.5**	**293**
Ethylbenzene	5	µg/l	1.0 U	**178 J**	1.0 U	200 U	**67.2**	1.0 U [1.0 U]	50 U	2.6	3.6	5.0 U	1.0 U	1.0 U
m&p-Xylenes	5	µg/l	1.0 U	**361**	1.0 U	200 U	**410**	1.0 U [1.0 U]	50 U	**9.6**	**14.9**	5.0 U	1.0 U	1.0 U
Methyl Acetate	--	µg/l	1.5 J	1000 U	5.0 U	1000 U	100 U	5.0 U [5.0 U]	250 U	10 U	5.0 U	25 U	5.0 U	5.0 U
o-Xylene	5	µg/l	1.0 U	**120 J**	1.0 U	200 U	**70.0**	1.0 U [1.0 U]	50 U	2.2	**10.9**	5.0 U	1.0 U	1.0 U
Tetrachloroethene	5	µg/l	0.69 J	200 U	1.0 U	200 U	20 U	1.0 U [1.0 U]	50 U	2.0 U	1.0 U	5.0 U	1.0 U	2.7
Toluene	5	µg/l	1.0 U	**1880**	1.0 U	**116 J**	**4130**	1.0 U [1.0 U]	50 U	**93.2**	**307**	5.0 U	1.0 U	1.0 U
Total Xylenes	5	µg/l	1.0 U	**481**	1.0 U	200 U	**480**	1.0 U [1.0 U]	50 U	**11.8**	**25.8**	5.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	µg/l	3.6	**289**	1.0 U	**230**	20 U	1.0 U [1.0 U]	**44.3 J**	1.1 J	1.0 U	**8.9**	0.69 J	3.4
Trichloroethene	5	µg/l	**5.6**	**7550**	1.0 U	200 U	20 U	1.0 U [1.0 U]	50 U	2.0 U	1.0 U	**137**	3.0	**104**
Vinyl chloride	2	µg/l	**16.4**	**22500**	1.0 U	**7350**	**1060**	**2.3 [2.3]**	**1830**	**817**	**86.6**	**140**	**4.1**	1.3
Metals														
Iron	300	µg/l	**12100**	500 U	**18100**	**1630**	**134000**	**8590 [7250]**	**767**	**6390**	**29800**	100 U	**1510**	**3660**
Manganese	300	µg/l	**49600**	90.6	**2330**	116	**3330**	**3750 [3550]**	149	**462**	**1170**	43.5	**308**	244
Metals-Filtered														
Iron	300	µg/l	**11100**	500 U	**18600**	**451**	**146000**	**9400 [9340]**	**364**	**6090**	**31900**	100 U	100 U	100 U
Manganese	300	µg/l	**50000**	88.5	**2490**	106	**3760**	**3600 [3660]**	152	**481**	**1240**	40.2	195	28.2
General Chemistry														
Total Organic Carbon	--	mg/l	84.9	95.0	9.4	141	274	2.9 [3.7]	48.5	8.0	27.4	2.5	18.5	11.6
Sulfate	--	mg/l	10	117	28.0	544	2.0 U	131 [127]	559	6.6	2.0 U	45.7	45.7	27.8
Sulfide	--	mg/l	2.0 U	155	2.0 U	6.6	2.0 U	2.0 U [2.0 U]	19.2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dissolved Gases														
Ethane	--	µg/l	2.68	174	325	21.5	2100	56.3 [41.7]	3.65	184	1250	18.1	0.23 U	0.23 U
Ethene	--	µg/l	15.7	1390	17.8	154	2530	8.34 [5.68]	109	206	5430	13.3	0.31 U	0.31 U
Methane	--	µg/l	362	5910	4240	3600	7100	6820 [5990]	757	10500	9670	191	0.20	0.22
Field Parameters														
pH	--	dimensionless	6.99	6.47	6.99	6.78	5.8	6.82	6.77	6.67	6.27	6.78	6.81	6.97
Conductivity	--	mS/cm	4.42	2.848	2.28	2.597	1.865	1.066	1.716	2.21	3.001	1.469	2.786	3.236
Turbidity	--	NTU	28.98	2.07	38.72	NA	NA	3.59	0.76	NA	9.12	1.82	8.81	19.32
Dissolved Oxygen	--	mg/L	1.71	0.91	0.82	0.37	0.76	0.71	0.42	0.42	0.78	0.63	0.91	3.97
Temperature	--	°C	7	9.4	8.9	12.8	10.4	9.3	9.5	10.4	7	20.5	8.9	9.8
Redox Potential	--	mV	-63.9	-348.1	-71	-305.3	-55.3	-53.3	-325.6	-174	-51.3	19.2	161.7	65.2

Notes:

1) New York State Department of Environmental Conservation, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations for Source of Drinking Water (GA).
2) Bold/Shading - Exceeds applicable TOGS 1.1.1 value.
3) Data in this table is not validated.
4) Abbreviations:
µg/L - micrograms per liter
mg/L - milligrams per liter
mS/cm - milli siemens per centimeter
NTU - Nephelometric Turbidity Units
°C - degrees Celsius
mV - millivolts
NA - Not Analyzed/Applicable/Available (Turbidity was not recorded at wells MW-6B, MW-6S, MW-14S due to field equipment error; however, all other parameters had stabilized).
5) Monitoring Wells MW-18S and MW19S went dry before stabilization of field parameters; therefore, samples were collected following recharge.
6) Only detected Volatile Organics are shown.
7) Lab Qualifiers:
J - Indicates an estimated value.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Figure

MW-13S	
Constituent	µg/l
Tetrachloroethene	50 U
Trichloroethene	50 U
1,1-Dichloroethene	50 U
cis-1,2-Dichloroethene	**6,670**
trans-1,2-Dichloroethene	**44.3 J**
Vinyl chloride	**1,830**
Ethane	3.65
Ethene	109
Methane	757

MW-1S	
Constituent	µg/l
Tetrachloroethene	0.69 J
Trichloroethene	**5.6**
1,1-Dichloroethene	1.0 U
cis-1,2-Dichloroethene	**50.1**
trans-1,2-Dichloroethene	3.6
Vinyl chloride	**16.4**
Ethane	2.68
Ethene	15.7
Methane	362

MW-6B	
Constituent	µg/l
Tetrachloroethene	200 U
Trichloroethene	200 U
1,1-Dichloroethene	200 U
cis-1,2-Dichloroethene	**43,200**
trans-1,2-Dichloroethene	**230**
Vinyl chloride	**7,350**
Ethane	21.5
Ethene	154
Methane	3,600

MW-6S	
Constituent	µg/l
Tetrachloroethene	20 U
Trichloroethene	20 U
1,1-Dichloroethene	20 U
cis-1,2-Dichloroethene	**451**
trans-1,2-Dichloroethene	20 U
Vinyl chloride	**1,060**
Ethane	2,100
Ethene	2,530
Methane	7,100

MW-19S	
Constituent	µg/l
Tetrachloroethene	2.7
Trichloroethene	**104**
1,1-Dichloroethene	1.0 U
cis-1,2-Dichloroethene	**293**
trans-1,2-Dichloroethene	3.4
Vinyl chloride	1.3
Ethane	0.23 U
Ethene	0.31 U
Methane	0.22

MW-18S	
Constituent	µg/l
Tetrachloroethene	1.0 U
Trichloroethene	3.0
1,1-Dichloroethene	1.0 U
cis-1,2-Dichloroethene	**31.5**
trans-1,2-Dichloroethene	0.69 J
Vinyl chloride	**4.1**
Ethane	0.23 U
Ethene	0.31 U
Methane	0.20

MW-17S	
Constituent	µg/l
Tetrachloroethene	5.0 U
Trichloroethene	**137**
1,1-Dichloroethene	5.0 U
cis-1,2-Dichloroethene	**1,080**
trans-1,2-Dichloroethene	**8.9**
Vinyl chloride	**140**
Ethane	18.1
Ethene	13.3
Methane	191

MW-14S	
Constituent	µg/l
Tetrachloroethene	2.0 U
Trichloroethene	2.0 U
1,1-Dichloroethene	2.0 U
cis-1,2-Dichloroethene	**334**
trans-1,2-Dichloroethene	1.1 J
Vinyl chloride	**817**
Ethane	184
Ethene	206
Methane	10,500

MW-7S	
Constituent	µg/l
Tetrachloroethene	1.0 U [1.0 U]
Trichloroethene	1.0 U [1.0 U]
1,1-Dichloroethene	1.0 U [1.0 U]
cis-1,2-Dichloroethene	2.7 [2.9]
trans-1,2-Dichloroethene	1.0 U [1.0 U]
Vinyl chloride	**2.3 [2.3]**
Ethane	56.3 [41.7]
Ethene	8.34 [5.68]
Methane	6,820 [5,990]

MW-15S	
Constituent	µg/l
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
1,1-Dichloroethene	1.0 U
cis-1,2-Dichloroethene	2.9
trans-1,2-Dichloroethene	1.0 U
Vinyl chloride	**86.6**
Ethane	1,250
Ethene	5,430
Methane	9,670

MW-4B	
Constituent	µg/l
Tetrachloroethene	200 U
Trichloroethene	**7,550**
1,1-Dichloroethene	**212**
cis-1,2-Dichloroethene	**48,200**
trans-1,2-Dichloroethene	**289**
Vinyl chloride	**22,500**
Ethane	174
Ethene	1,390
Methane	5,910

MW-4S	
Constituent	µg/l
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
1,1-Dichloroethene	1.0 U
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl chloride	1.0 U
Ethane	325
Ethene	17.8
Methane	4,240

LEGEND:

- SITE BOUNDARY
- EASEMENT
- FENCE LINE
- MW-3S — OVERBURDEN MONITORING WELL
- MW-3B — BEDROCK MONITORING WELL
- BH-104 — BORE HOLE
- IW-40 — INJECTION POINT LOCATION
- 2022 DPT INJECTION POINTS
- IW-14 — WELL DESTROYED
- ORIGINAL GROUNDWATER TREATMENT AREAS
- WETLAND BOUNDARY
- U — THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
- J — INDICATES AN ESTIMATED VALUE.

Standards	
Constituent	µg/l
Tetrachloroethene	5
Trichloroethene	5
1,1-Dichloroethene	5
cis-1,2-Dichloroethene	5
trans-1,2-Dichloroethene	5
Vinyl chloride	2
Ethane	--
Ethene	--
Methane	--

NOTE:

1. GROUNDWATER RESULTS ARE REPORTED IN MICROGRAMS PER LITER (µg/L)
2. BOLD/SHADING- EXCEEDS APPLICABLE TOGS 1.1.1 VALUE.
3. DPT POINTS ARE THE APPROXIMATE LOCATION OF SUPPLEMENTAL TEMPORARY DIRECT PUSH INJECTIONS.
4. MW-2B/2S WERE UNABLE TO BE LOCATED IN 2017.

0 80’ 160’

GRAPHIC SCALE

OLD ERIE CANAL - NYSDEC SITE #859015
124 COLUMBIA STREET- CLYDE, NEW YORK
FIRST QUARTER 2023 GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL MAP JANUARY 2023

ARCADIS

FIGURE 1

Attachment 1

Groundwater Sampling Logs

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No 30147041.00004 | Well ID MW-15 | Date 1/17/23

Project Name/Location Old Erie Canal Site / Clyde, NY | Weather cloudy, 38°

Measuring Pt Description TOC | Screen Setting (ft bmp) 2.3-7.3' | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft bmp) 2.72 | Total Depth (ft bmp) 6.88 | Water Column/ Gallons in Well 4.16/0.67

MP Elevation NA | Pump Intake (ft bmp) ~5.0' | Purge Method Low Flow | Sample Method Peri Pump

Pump On/Off 1330/1520 | Volumes Purged 5.0 | Centrifugal ___ Submersible ___ Other Peri Pump

Label Time 1500 | Duplicate Y / (N)

Start Filling 1500 | MS/MSD Y / (N)

End Filling 1530 | QA/QC Code NA | Sampled by KCF

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft. bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	Redox (mV)	Appearance Color	Appearance Odor
1350	20	150	3.02	0.8	8.60	3.549	171.34	9.42	5.0	109.9	lt. brown	none
1355	25	150	3.04		8.63	3.700	126.30	7.43	5.5	112.6	"	"
1400	30	150	3.10		8.64	3.851	89.94	5.89	5.6	114.4	"	"
1405	35	150	3.10		8.60	3.983	69.19	4.99	5.8	115.4	"	"
1410	40	150	3.10		8.47	4.139	60.95	4.11	6.0	116.4	"	"
1415	45	150	3.10		8.19	4.248	53.32	3.43	6.2	113.0	"	"
1420	50	150	3.10		7.89	4.319	51.78	3.12	6.3	95.4	"	"
1425	55	150	3.10	3.0	7.58	4.406	74.23	2.66	6.4	33.0	"	"
1430	60	150	Empty	turbidity	meter							→
1435	65	150	3.10		7.23	4.492	23.84	1.99	6.6	-39.6	"	"
1440	70	150	3.10	4.0	7.15	4.488	26.53	1.81	6.8	-49.3	"	"
1445	75	150	3.10		7.08	4.461	28.54	1.79	6.7	-56.1	"	"
1450	80	150	3.10		7.03	4.442	28.64	1.76	6.9	-59.9	"	"
1455	85	150	3.10		6.99	4.420	28.98	1.71	7.0	-63.9	"	"
1500	90	SAMPLE										→

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

FF = Field Filtered

Well Location: Gravel parking area

Condition of Well: Fair - 1 bolt tab missing. Bolt holes stripped

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / (No)

Key Number To Well: NA

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No. 30147041 00004 Well ID MW-49 Date 1-18-23

Project Name/Location Old Erie Canal Site / Clyde, NY Weather 40°F/ Overcast, misting

Well Material X PVC ___ SS

Measuring Pt. Description TOC Screen Setting (ft-bmp) 10.3-20.3 Casing Diameter (in.) 2

Static Water Level (ft-bmp) 4.74' Total Depth (ft-bmp) 19.58' Water Column/ Gallons in Well 14.84'/ 2.37gal

MP Elevation n/a Pump Intake (ft-bmp) ~15' Purge Method Low Flow Centrifugal ___ Submersible ___ Other Peri Pump Sample Method Peri Pump

Pump On/Off 1120/1247 Volumes Purged 2.5

Label Time: 1230 Duplicate Y / (N)
Start Filling: 1230 MS/MSD Y / (N)
End Filling: 1247 QA/QC Code: na

Sampled by BKW

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance Color	Appearance Odor
1120	—	150	4.74								*	none
1130	10	120	4.82		7.63	2.207	82.71	3.74	8.2	7.5	light orange w/ orange particles	
1135	15	120	4.82	0.5	7.22	2.232	74.46	1.53	8.2	-41.0	↓	
1140	20	170	4.82		7.12	2.248	68.00	1.24	8.5	-50.0		
1145	25	170	4.82		7.08	2.249	64.88	1.12	8.6	-55.0	light orange	
1150	30	170	4.82	1.0	7.06	2.248	57.63	1.05	8.7	-58.6		
1155	35	170	4.82		7.05	2.247	50.95	0.99	8.7	-62.0		
1200	40	170	4.82		7.05	2.249	48.88	0.97	8.7	-63.4		
1205	45	170	4.82	1.5	7.03	2.261	45.17	0.89	8.4	-66.0		
1210	50	170	4.82		7.03	2.255	42.72	0.91	8.7	-67.3		
1215	55	170	4.82		7.02	2.263	42.30	0.88	8.8	-68.4		
1220	60	170	4.82	2.0	7.01	2.274	41.03	0.86	8.7	-69.4		
1225	65	170	4.82		6.99	2.280	38.72	0.82	8.9	-71.0	↓	↓
1230	SAMPLED											

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

FF = Field Filtered

Well Information

Well Location: Back grass area
Condition of Well: missing 1 bolt
Well Completion: (Flush Mount) Stick Up

Well Locked at Arrival: (Yes) / No
Well Locked at Departure: (Yes) / No
Key Number To Well: —

* Suspended orange particles in first purge ~10 min. some woody debris particles - root-like

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041 00004 | Well ID: MW-4B | Date: 4/18/23

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: 40°F, overcast

Measuring Pt Description: TOC | Screen Setting (ft bmp): 73.9-38.9 | Casing Diameter (in.): 2 | Well Material: X PVC / ~~SS~~

Static Water Level (ft-bmp): 5.95' | Total Depth (ft-bmp): ☆ | Water Column/ Gallons in Well: ☆

MP Elevation: n/a | Pump Intake (ft-bmp): 40' | Purge Method: Low Flow / Centrifugal / Submersible / Other Peri Pump | Sample Method: Peri Pump

Pump On/Off: 1345 / 1515 | Volumes Purged: 2.25

Label Time: 1455 | Duplicate Y / (N) | Sampled by: BKW

Start Filling: 1455 | MS/MSD Y / (N)

End Filling: 1515 | QA/QC Code: na

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft. bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance: Color	Appearance: Odor
1345	—	—	5.95								*	strong
1355	10	170	~~6.97~~ 6.97	0.5							*	
1400	15	120	6.89									
1405	20	120	6.87		6.60	2.763	10.80	1.70	8.8	-297.1	clear	
1410	25	150	6.84		6.46	2.807	6.05	0.95	8.9	-321.2		
1415	30	150	6.84	1	6.46	2.837	4.06	0.93	9.3	-336.4		
1420	35	150	6.83		6.46	2.834	3.00	0.94	9.3	-342.6		
1425	40	150	6.84		6.46	2.840	2.85	0.93	9.3	-344.6		
1430	45	150	6.86	1.5	6.46	2.839	1.90	0.93	9.3	-346.4		
1435	50	150	6.86		6.46	2.838	3.51	0.92	9.3	-347.0		
1440	55	150	6.89		6.46	2.847	1.32	0.91	9.4	~~347.5~~		
1445	60	150	6.89		6.50	2.842	1.19	0.91	9.3	-347.6		
1450	65	150	6.92	2.0	6.47	2.848	2.07	0.91	9.4	-348.1		
1455	SAMPLE											

air bubbles

Constituents Sampled	Container	Min Vol.	Number	Preservative
VB260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

FF = Field Filtered

Well Information

Well Location: back grass area | Well Locked at Arrival: (Yes) / No

Condition of Well: missing 3 bolts | Well Locked at Departure: (Yes) / No

Well Completion: (Flush Mount) / Stick Up | Key Number To Well: —

* clear with black/gray particles, too turbid to connect YSI

☆ Could not measure DTB - too sticky that slim could not go deeper than ~6.5'
↳ accumulation of injection material residue on inside of well casing + riser acting as an obstruction

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041.00004 | Well ID: MW-65 | Date: 1/18/23

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: cloudy, 40°

Measuring Pt Description: TOC | Screen Setting (ft bmp): 5'-15' | Casing Diameter (in.): 2 | Well Material: X PVC / SS

Static Water Level (ft-bmp): 3.71 | Total Depth (ft-bmp): 14.28 | Water Column/ Gallons in Well: 10.57 / 1.72

MP Elevation: NA | Pump Intake (ft-bmp): ~12' | Purge Method: Low Flow; Centrifugal; Submersible; Other: Peri Pump | Sample Method: Peri Pump

Pump On/Off: 0945/1015 | Volumes Purged: 4.0

Label Time: 0955 | Start Filling: 0955 | End Filling: 1015 | Duplicate Y / (N) | MS/MSD Y / (N) | QA/QC Code: NA | Sampled by: KCF

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance: Color	Appearance: Odor
0905	20	140	6.39	1.0	5.64	3.333	789.94	5.66	9.7	-7.1	clear w/	slight
0910	25	140	6.39		5.68	3.456	255.09	4.38	9.9	-19.4	black	"
0915	30	140	6.39		5.73	3.669	336.36	3.81	9.8	-30.7	suspended particles	"
0920	35	140	6.39		5.85	4.083	57.17	1.68	9.7	-37.2	"	"
0925	40	140	6.39		5.87	3.878	66.49	0.97	9.7	-45.9	"	"
0930	45	140	6.39		5.87	2.831	x	0.86	9.7	-50.6	"	"
0935	50	140	6.39		5.86	2.831	x	0.79	9.8	-54.5	"	"
0940	55	140	6.39		5.85	1.814	x	0.78	9.9	-57.0	"	"
0945	60	140	6.39		5.83	1.897	x	0.76	10.2	-57.0	"	"
0950	65	140	6.39		5.80	1.865	x	0.76	10.4	-55.3	"	"
0955	70	SAMPLE										

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information FF = Field Filtered

Well Location:	Doorway	Well Locked at Arrival:	Yes / (No)
Condition of Well:	Fair; bolts stripped	Well Locked at Departure:	Yes / (No)
Well Completion:	(Flush Mount) / Stick Up	Key Number To Well:	NA

* Turbidity meter was getting air bubbles in it, causing the turbidity to go up (tried emptying meter and shaking to get rid of air bubbles, but turbidity kept going up)

ARCADIS

GROUNDWATER SAMPLING LOG

Project No 30147041.00004 | Well ID MW-6B | Date 1/18/2023

Project Name/Location Old Erie Canal Site / Clyde, NY | Weather cloudy, 40°F

Measuring Pt. Description TOC | Screen Setting (ft bmp) 29.4-39.4 | Casing Diameter (in.) 2 | Well Material X PVC / SS

Static Water Level (ft-bmp) 6.11 | Total Depth (ft-bmp) 39.16 | Water Column/ Gallons in Well 33.05 / 5.38

MP Elevation NA | Pump Intake (ft bmp) ~32 | Purge Method Low Flow; Centrifugal; Submersible; Other Peri Pump | Sample Method Peri Pump

Pump On/Off 1050/1220 | Volumes Purged 5.0

Label Time 1200 | Start Filling 1200 | End Filling 1230 | Duplicate Y / (N) | MS/MSD Y / (N) | QA/QC Code NA | Sampled by KCF

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft. bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	Redox (mV)	Appearance Color	Appearance Odor
1105	35	150	6.39	1.0	6.32	3.171	197.23	0.75	12.3	-205.0	Black	Slight
1110	40	150	6.39		6.43	3.356	—	0.56	12.6	-240.9	Soot like particles	"
1115	45	150	6.39		6.74	4.017	—	0.47	12.7	-291.7	"	"
1120	50	150	6.39		6.61	3.292	—	0.44	12.6	-282.0	No color	"
1125	55	150	6.39	2.5	6.68	3.652	—	0.43	12.7	-295.7	"	"
1130	60	150	6.39		6.77	3.457	—	0.41	12.6	-310.5	"	"
1135	65	150	6.39		6.80	3.119	—	0.40	12.8	-311.8	"	"
1140	70	150	6.39		6.81	2.863	—	0.39	12.7	-311.3	"	"
1145	75	150	6.39		6.80	2.657	—	0.38	12.8	-309.5	"	"
1150	80	150	6.39	3.5	6.79	2.623	—	0.38	12.8	-307.3	"	"
1155	85	150	6.39		6.78	2.597	—	0.37	12.8	-305.3	"	"
1200	90	SAMPLE										

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

FF = Field Filtered

Well Information

Well Location: Drive way | Well Locked at Arrival: Yes / (No)

Condition of Well: Good | Well Locked at Departure: Yes / (No)

Well Completion: (Flush Mount) / Stick Up | Key Number To Well: NA

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041.00004 | Well ID: MW-75 | Date: 1/17/23

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: Rain, 33°F

Measuring Pt. Description: n/a TOC | Screen Setting (ft-bmp): 6.5-16.5 | Casing Diameter (in.): 2" | Well Material: X PVC / SS

Static Water Level (ft-bmp): 8.45 | Total Depth (ft-bmp): 18.2 | Water Column/ Gallons in Well: 9.75' / 1.56gal

MP Elevation: n/a | Pump Intake (ft-bmp): ~15' | Purge Method: Low Flow / Centrifugal / Submersible / Other Peri Pump | Sample Method: Peri Pump

Pump On/Off: 1340 / 1610 | Volumes Purged: ~4

Label Time: 1500 | Start Filling: 1505 | End Filling: 1610 | Duplicate: (Y) / N DUP-20230117 | MS/MSD: (Y) / N | QA/QC Code: | Sampled by: BKW

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft. bmp)	Gallons Purged	pH 0.1	Conductivity 3%/0 (mS/cm)	Turbidity 10%/0 (NTU)	Dissolved Oxygen 10%/0 (mg/L)	Temp. (°C)	Redox +/- 10 (mV)	Appearance Color	Appearance Odor
1340												*
1400	20	150	8.49	0.5	8.32	0.580	42.74	4.16	8.6	90.7	clear	none
1405	25	150	8.49		7.61	0.589	33.09	1.34	8.7	22.8	clear	
1410	30	150	8.49		7.30	0.634	28.01	0.97	8.8	-2.6	clear	
1415	35	160	8.49		7.11	0.717	20.20	0.87	9.0	20.45	clear	
1420	40	160	8.49		7.00	0.818	13.88	0.82	9.2	~~-30.0~~ -13.64		
1425	45	160	8.49	1.5	6.93	0.894	8.00	0.79	9.1	-37.1		
1430	50	160	8.49		6.89	0.952	5.20	0.75	9.2	-42.6		
1435	55	160	8.49		6.87	0.979	4.11	0.74	9.1	-44.8		
1440	60	160	8.49		6.85	1.015	4.36	0.73	9.4	-47.6		
1445	65	160	8.49		6.84	1.033	3.65	0.72	9.4	-50.0		
1450	70	160	8.49		6.83	1.049	3.69	0.72	9.2	-51.3		
1455	75	160	8.49	3	6.82	1.066	3.59	0.71	9.3	-53.3		
1500	SAMPLED											

* some wood particles

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	12	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	12	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	4	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	4	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	8	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	4	HNO3
TOC	1 x 60 ml glass	full	4	HCL

Gallons/Foot	1" = 0.04	1.25" = 0.06	1.5" = 0.09	2" = 0.16	2.5" = 0.26	3" = 0.37	3.5" = 0.50	4" = 0.65	6" = 1.47

FF = Field Filtered

Well Information

Well Location: Grass Area | Well Locked at Arrival: (Yes) / No

Condition of Well: Good | Well Locked at Departure: Yes / (No)

Well Completion: Flush Mount / (Slick Up) | Key Number To Well: —

DUP-20230117

$ Cut master lock off. ~~Lock not replaced~~ will replace lock during next sampling event. BKW

* organic material (wood) suspended in purge + orange particles

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041.00004 | Well ID: MW-135 | Date: 1/18/2023

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: cloudy, 40°

Measuring Pt Description: TOC | Screen Setting (ft bmp): 16.4-21.4 | Casing Diameter (in): 2 | Well Material: X PVC / SS

Static Water Level (ft bmp): 2.34 | Total Depth (ft bmp): 18.78 | Water Column/Gallons in Well: 16.44 / 2.68

MP Elevation: NA | Pump Intake (ft bmp): ~16.5 | Purge Method: Low Flow | Sample Method: Peri Pump

Pump On/Off: 1440 / 1545 | Volumes Purged: 3.0 | Centrifugal / Submersible / Other: Peri Pump

Label Time: 1535 | Duplicate Y / (N)

Start Filling: 1535 | MS/MSD Y / (N)

End Filling: 1545 | QA/QC Code: NA | Sampled by: KCF

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	Redox (mV)	Appearance Color	Appearance Odor
1500	20	150	2.71	1.0	6.97	1.739	4.77	1.05	9.6	-275.8	clear	none
1505	25	150	2.71		6.89	1.728	3.67	0.60	9.3	-291.5	w/	"
1510	30	150	2.71	1.5	6.83	1.724	3.14	0.51	9.4	-309.9	black	"
1515	35	150	2.71		6.81	1.723	1.87	0.47	9.4	-315.4	susp.	"
1520	40	150	2.71	2.0	6.79	1.719	2.97	0.45	9.5	-319.0	particles	"
1525	45	150	2.71		6.78	1.718	1.37	0.44	9.6	-322.3	"	"
1530	50	150	2.71	2.5	6.77	1.716	0.76	0.42	9.5	-325.6	"	"
1535	55	SAMPLE										
~~1540~~	~~60~~											

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

FF = Field Filtered

Well Information

Well Location:	Marsh area	Well Locked at Arrival:	Yes / (No)
Condition of Well:	Good	Well Locked at Departure:	Yes / (No)
Well Completion:	Flush Mount / (Stick Up)	Key Number To Well:	NA *

* Lock will be replaced next sampling event

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041.00004 | Well ID: MW-14S | Date: 1/18/2022

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: cloudy, 40°F

Measuring Pt Description: TOC | Screen Setting (ft bmp): 16.4-21.4 | Casing Diameter (in.): 2 | Well Material: X PVC / SS

Static Water Level (ft bmp): 2.72 | Total Depth (ft bmp): 23.47 | Water Column/ Gallons in Well: 20.75 / 3.38

MP Elevation: NA | Pump Intake (ft bmp): ~18.0 | Purge Method: Low Flow / Centrifugal / Submersible / Other: Peri Pump | Sample Method: Peri Pump

Pump On/Off: 1250/1420 | Volumes Purged: 3.5

Label Time: 1400 | Duplicate Y / (N)

Start Filling: 1400 | MS/MSD Y / (N)

End Filling: 1430 | QA/QC Code: NA | Sampled by: KCF

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft. bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	Redox (mV)	Appearance Color	Appearance Odor
1305	15	150	3.31	0.7	7.04	2.384	19.06	0.66	9.9	-167.7	clear	none
1310	20	150	3.31		6.99	2.320	31.76	0.56	10.1	-169.4	"	"
1315	25	150	3.31		6.92	2.280	20.96	0.51	10.1	-170.4	"	"
1320	30	150	3.31		6.88	2.341	36.64	0.51	8.3	-168.9	"	"
1325	35	150	3.31	1.5	6.84	2.247	61.59	0.48	10.1	-170.8	"	"
1330	40	150	3.31		6.82	2.233	—	0.46	10.3	-172.3	"	"
1335	45	150	3.31		6.78	2.224	—	0.44	10.5	-172.5	"	"
1340	50	150	3.31		6.74	2.227	~~7.68~~	0.44	10.4	-172.6	"	"
1345	55	150	3.31		6.72	2.218	—	0.43	10.5	-173.1	"	"
1350	60	150	3.31	3.0	6.68	2.211	—	0.42	10.4	-173.3	"	"
1355	65	150	3.31	3.5	6.67	2.210	—	0.42	10.4	-174.0	"	"
1400	70	150	3.31	SAMPLE	—	—	—	—	—	—>	"	"

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

FF = Field Filtered

Well Location: swamp area

Condition of Well: good

Well Completion: Flush Mount / (Stick Up)

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / (No)

Key Number To Well: NA *

* Lock will be replaced next sampling event

ARCADIS

GROUNDWATER SAMPLING LOG

Project No: 30147041.00004 | Well ID: MW-155 | Date: 1/13/23

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: 38°F / Overcast, Rain

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): 7.7-12.7' | Casing Diameter (in.): 2 | Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 1.66' | Total Depth (ft-bmp): 14.50' | Water Column/ Gallons in Well: 12.84' / 2.05 gal

MP Elevation: n/a | Pump Intake (ft-bmp): ~11' | Purge Method: Low Flow | Sample Method: Peri Pump

Pump On/Off: 0820/1026 | Volumes Purged: 4 | Centrifugal / Submersible / Other: Peri Pump

Label Time: 1000 | Duplicate Y / (N)

Start Filling: 1000 | MS/MSD Y / (N) | Sampled by: BKW

End Filling: 1026 | QA/QC Code: DP

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft. bmp)	Gallons Purged	pH +/- 0.1	Conductivity 3%/10 (mS/cm)	Turbidity 10% (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox +/-10 (mV)	Appearance Color	Appearance Odor
0820											Brown Tinge	none
0830	10	150	1.71		7.27	2.737	27.93	2.19	6.6	-20.8	clear	none
0835	16	140	1.71	0.5	6.71	2.776	27.00	1.17	6.7	-45.4		yes
0840	20	140	1.71		6.55	2.828	31.63	1.03	7.1	-47.4		Yes
0845	25	150	1.71		6.46	2.870	34.70	0.94	7.1	-48.0		yes
0850	30	150	1.71	1.0	6.40	2.936	24.04	0.88	7.5	-48.0		yes
0855	35	150	1.71		6.36	2.949	15.66	0.86	7.4	-47.3		
0900	40	150	1.71		6.32	2.971	35.22	0.82	7.4	-47.8		
0905	45	150	1.71	1.5	6.31	2.987	16.50	1.01	7.7	-48.0		
0910	50	150	1.71		6.30	2.994	25.07	1.33	7.4	-48.3		
0915	55	150	1.71	2.0	6.30	2.989	27.36	1.26	7.4	-49.4		
0920	60	150	1.71		6.28	3.024	71.50	0.91	7.3	-49.4		
0925	66	150	1.72		6.29	2.999	26.96	0.82	7.3	-50.8		
0930	70	150	1.72	2.5	6.29	2.957	12.47	0.91	6.8	-51.0		
0935	75	150	1.72		6.28	3.001	8.35	0.78	7.1	-51.0		
0940	80	150	1.71		6.27	3.001	9.12	0.78	7.0	-51.3	↓	↓

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Information

FF = Field Filtered

Location: Wetland

Well Locked at Arrival: Yes / (No)

Well: good

Well Locked at Departure: Yes / (No)

Flush Mount / (Stick Up)

Key Number To Well: ✓ *

*Lock will be replaced next sampling event

ARCADIS

GROUNDWATER SAMPLING LOG

Project No. 30147041.00004 Well ID MW-155 Date 1/18/23

Project Name/Location Old Erie Canal Site / Clyde, NY Weather

Measuring Pt. Description Screen Setting (ft-bmp) Casing Diameter (in.) Well Material ___ PVC ___ SS

see page 1

Static Water Level (ft-bmp) Total Depth (ft-bmp) Water Column/ Gallons in Well

MP Elevation Pump Intake (ft-bmp) Purge Method Low Flow Centrifugal Submersible Other Peri Pump Sample Method Peri Pump

Pump On/Off Volumes Purged

Label Time: Duplicate Y / N

Start Filling: MS/MSD Y / N

End Filling: QA/QC Code: Sampled by

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft. bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance Color	Appearance Odor
0945	85	150	1.71	2.5	6.28	3.013	6.15	0.75	7.3	-52.7	clear	yes
0950	90	150	1.71		6.27	3.052	6.93	0.74	7.5	-53.0	↓	↓
0955	95	150	1.71		6.27	3.044	3.88	0.74	7.5	-53.7	↓	↓
1000	SAMPLED											

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full		HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full		HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml		HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml		None
Sulfide	2 x 250 ml HDPE	200 ml/bottle		NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml		HNO3
TOC	1 x 60 ml glass	full		HCL

see page 1

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

FF = Field Filtered

Well Information

Well Location:

Condition of Well:

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041 00004 | Well ID: MW-17S | Date: 1/17/23

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: Rainy, 32°F

Measuring Pt Description: TOC | Screen Setting (ft bmp): 4.6-9.6 | Casing Diameter (in.): 2 | Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 3.58 | Total Depth (ft-bmp): 8.06 | Water Column/ Gallons in Well: 0.72

MP Elevation: n/a | Pump Intake (ft bmp): ~7.5' | Purge Method: Low Flow | Sample Method: Peri Pump

Pump On/Off: 1105 / 1227 | Volumes Purged: ~1.75 | Centrifugal / Submersible / Other: Peri Pump

Label Time: 1200 | Duplicate Y / (N)

Start Filling: 1202 | MS/MSD Y / (N)

End Filling: 1227 | QA/QC Code: | Sampled by: BKW

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft bmp)	Gallons Purged	pH +/- 0.1	Conductivity 3% (mS/cm)	Turbidity 10% (NTU)	Dissolved Oxygen 10% (mg/L)	Temp. (°C)	Redox +/- 10 (mV)	Appearance Color	Appearance Odor
1105			3.58									
1115	10	150	3.60	0.5	6.73	1.586	5.17	0.95	20.3	-4.3	light brown	none
1120	15		3.61		6.75	1.507	1.74	0.86	20.4	7.2	"	"
1125	20		3.60		6.76	1.484	3.52	0.78	20.4	9.0	clear	
1130	25		3.60		6.77	1.471	1.56	0.72	20.4	11.8		
1135	30		3.60	1	6.77	1.471	1.61	0.69	20.4	13.6		
1140	35		3.60		6.78	1.471	1.40	0.66	20.5	16.0		
1145	40		3.61		6.78	1.470	1.36	0.64	20.5	17.0		
1150	45		3.61	1.5	6.78	1.470	1.34	0.64	20.5	18.4		
1155	60	↓	3.61		6.78	1.469	1.82	0.63	20.5	19.2	↓	↓
1200	SAMPLE											

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
filter * DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information FF = Field Filtered

Well Location:	Behind vending machine	Well Locked at Arrival:	Yes / (No)
Condition of Well:	Good	Well Locked at Departure:	Yes / (No)
Well Completion:	(Flush Mount) / Stick Up	Key Number To Well:	NA

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041.00004 | Well ID: MW-18S | Date: 1/17/23

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: cloudy, 40°

Measuring Pt Description: TOC | Screen Setting (ft bmp): 3'-8' | Casing Diameter (in.): 2 | Well Material: X PVC / SS

Static Water Level (ft bmp): 3.55 | Total Depth (ft bmp): 7.26 | Water Column/ Gallons in Well: 3.71 / 0.6

MP Elevation: NA | Pump Intake (ft bmp): ~7' | Purge Method: Low Flow; Centrifugal; Submersible; Other: Peri Pump | Sample Method: Peri Pump

Pump On/Off: 1140 / 1205 | Volumes Purged: DRY

1/26/23 Label Time: 0930 | Duplicate Y / (N)

Start Filling: 0930 | MS/MSD Y / (N)

End Filling: 0950 | QA/QC Code: NA | Sampled by: KCF

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	Redox (mV)	Appearance: Color	Appearance: Odor
1145	5	100	5.38		6.81	2.825	10.13	1.42	8.8	184.2	none	none
1150	10	100	5.65		6.83	2.823	8.75	1.16	8.8	175.9	"	"
1155	15	100	6.75		6.81	2.786	8.81	0.91	8.9	161.7	"	"
1200	20	100	→							→	"	"
						well went Dry						
Came back on 1/26/2023 to sample												
			2.90 (DTW)			7.28 (DTB)						
					4.38 / 0.71 (water column / gal in well)							

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	2	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

FF = Field Filtered

Well Information

Well Location: Parking Lot | Well Locked at Arrival: Yes / (No)

Condition of Well: Good | Well Locked at Departure: Yes / (No)

Well Completion: (Flush Mount) / Stick Up | Key Number To Well: NA

* come back and sample next week

ARCADIS

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No: 30147041.00004 | Well ID: MW-195 | Date: 1/17/23

Project Name/Location: Old Erie Canal Site / Clyde, NY | Weather: cloudy, 38°

Measuring Pt Description: TOC | Screen Setting (ft bmp): 3.5-8.5 | Casing Diameter (in.): 2 | Well Material: X PVC / SS

Static Water Level (ft-bmp): 3.31 | Total Depth (ft bmp): 8.07 | Water Column/ Gallons in Well: 4.76 / 0.78

MP Elevation: NA | Pump Intake (ft bmp): ~7.8 | Purge Method: Low Flow | Sample Method: Peri Pump

Pump On/Off: 1225 / 1300 | Volumes Purged: 1.5 | Centrifugal / Submersible / Other: Peri Pump

1/18/23

Label Time: 0800 | Duplicate Y / (N)

Start Filling: 0800 | MS/MSD Y / (N)

End Filling: 0830 | QA/QC Code: NA | Sampled by: KCF

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft bmp)	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	Redox (mV)	Appearance Color	Appearance Odor
1230	5	100	4.19		6.97	3.727	49.12	2.28	9.8	133.5	none	none
1235	10	100	4.73		6.94	3.714	42.93	2.34	9.5	133.0	w/ black	"
1240	15	100	5.37	0.6	6.90	3.715	39.45	1.67	9.7	132.5	particles	"
1245	20	100	6.69		6.86	3.665	20.19	1.37	9.8	95.8	"	"
1250	25	100	7.41		6.89	3.425	19.32	1.36	10.0	65.0	"	"
1255	30	100	8.00	1.2	6.97	3.236	250.26	3.97	9.8	65.2	"	"
1300	35	100	→		→	DRY	→	→	→	→	"	"
Came back 1/18/2023 to Sample @ 0800												

Constituents Sampled	Container	Min Vol.	Number	Preservative
V8260TCL20 - VOCs	3 x 40 ml glass	full	3	HCL
VRSK175DGMEE - Dissolved Gasses	3 x 40 ml glass	full	3	HCL
TOT MET [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
SO4 - Sulfate	1 x 250 ml HDPE	250 ml	1	None
Sulfide	2 x 250 ml HDPE	200 ml/bottle	2	NaOH + ZnAc
DISS MET [FF] [Fe, Mn]	1 x 500 ml HDPE	150 ml	1	HNO3
TOC	1 x 60 ml glass	full	1	HCL

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information FF = Field Filtered

Well Location:	Parking Lot	Well Locked at Arrival:	Yes / (No)
Condition of Well:	Good	Well Locked at Departure:	Yes / (No)
Well Completion:	(Flush Mount) / Stick Up	Key Number To Well:	NA

* Sampled 1/18/23
* come back tomorrow morning or sample next week

Attachment 2

Groundwater Laboratory Results

Sample Summary

Arcadis

Job No: JD58982

Old Erie Canal Site, 124 Columbia Street, Clyde, NY
Project No: ALL31778.6000.00008

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD58982-1	01/17/23	12:00	BK	01/20/23	AQ	Ground Water	MW-17S
JD58982-1F	01/17/23	12:00	BK	01/20/23	AQ	Groundwater Filtered	MW-17S
JD58982-2	01/17/23	15:00	BK	01/20/23	AQ	Ground Water	MW-1S
JD58982-2F	01/17/23	15:00	BK	01/20/23	AQ	Groundwater Filtered	MW-1S
JD58982-3	01/17/23	15:00	BK	01/20/23	AQ	Ground Water	MW-7S
JD58982-3D	01/17/23	15:00	BK	01/20/23	AQ	Water Dup/MSD	MW-7S
JD58982-3F	01/17/23	15:00	BK	01/20/23	AQ	Groundwater Filtered	MW-7S
JD58982-3FD	01/17/23	15:00	BK	01/20/23	AQ	Water Dup/MSD	MW-7S
JD58982-3FS	01/17/23	15:00	BK	01/20/23	AQ	Water Matrix Spike	MW-7S
JD58982-3S	01/17/23	15:00	BK	01/20/23	AQ	Water Matrix Spike	MW-7S
JD58982-4	01/18/23	08:00	BK	01/20/23	AQ	Ground Water	MW-19S
JD58982-4F	01/18/23	08:00	BK	01/20/23	AQ	Groundwater Filtered	MW-19S

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Sample Summary
(continued)

Arcadis

Job No: JD58982

Old Erie Canal Site, 124 Columbia Street, Clyde, NY
Project No: ALL31778.6000.00008

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
JD58982-5	01/18/23	09:55 BK	01/20/23	AQ	Ground Water	MW-6S
JD58982-5F	01/18/23	09:55 BK	01/20/23	AQ	Groundwater Filtered	MW-6S
JD58982-6	01/18/23	12:00 BK	01/20/23	AQ	Ground Water	MW-6B
JD58982-6F	01/18/23	12:00 BK	01/20/23	AQ	Groundwater Filtered	MW-6B
JD58982-7	01/18/23	10:00 BK	01/20/23	AQ	Ground Water	MW-15S
JD58982-7F	01/18/23	10:00 BK	01/20/23	AQ	Groundwater Filtered	MW-15S
JD58982-8	01/18/23	14:00 BK	01/20/23	AQ	Ground Water	MW-14S
JD58982-8F	01/18/23	14:00 BK	01/20/23	AQ	Groundwater Filtered	MW-14S
JD58982-9	01/18/23	12:30 BK	01/20/23	AQ	Ground Water	MW-4S
JD58982-9F	01/18/23	12:30 BK	01/20/23	AQ	Groundwater Filtered	MW-4S
JD58982-10	01/18/23	14:55 BK	01/20/23	AQ	Ground Water	MW-4B
JD58982-10F	01/18/23	14:55 BK	01/20/23	AQ	Groundwater Filtered	MW-4B
JD58982-11	01/18/23	15:35 BK	01/20/23	AQ	Ground Water	MW-13S

Sample Summary
(continued)

Arcadis

Job No: JD58982

Old Erie Canal Site, 124 Columbia Street, Clyde, NY
Project No: ALL31778.6000.00008

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD58982-11F	01/18/23	15:35 BK	01/20/23	AQ	Groundwater Filtered	MW-13S
JD58982-12	01/17/23	00:00 BK	01/20/23	AQ	Ground Water	DUP-20230117
JD58982-12F	01/17/23	00:00 BK	01/20/23	AQ	Groundwater Filtered	DUP-20230117
JD58982-13	01/18/23	15:35 BK	01/20/23	AQ	Trip Blank Water	TRIP BLANK

Report of Analysis

Client Sample ID:	MW-17S		
Lab Sample ID:	JD58982-1	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1U52445.D	5	01/23/23 17:41	NW	n/a	n/a	V1U2080
Run #2	2U52511.D	50	01/24/23 14:01	NW	n/a	n/a	V2U2082

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/l	
71-43-2	Benzene	ND	2.5	2.1	ug/l	
74-97-5	Bromochloromethane	ND	5.0	2.4	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.3	ug/l	
75-25-2	Bromoform	ND	5.0	3.2	ug/l	
74-83-9	Bromomethane	ND	10	8.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	14	ug/l	
75-15-0	Carbon disulfide [b]	ND	10	2.3	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.8	ug/l	
75-00-3	Chloroethane	ND	5.0	3.6	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane [b]	ND	5.0	3.8	ug/l	
110-82-7	Cyclohexane	ND	25	3.9	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	2.6	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.8	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	2.4	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.7	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	10	2.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	3.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	3.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1080 [c]	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	8.9	5.0	2.7	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.2	ug/l	
100-41-4	Ethylbenzene	ND	5.0	3.0	ug/l	
76-13-1	Freon 113	ND	25	2.9	ug/l	
591-78-6	2-Hexanone	ND	25	10	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S		
Lab Sample ID:	JD58982-1	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	5.0	3.2	ug/l	
79-20-9	Methyl Acetate	ND	25	4.0	ug/l	
108-87-2	Methylcyclohexane [b]	ND	25	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	9.3	ug/l	
75-09-2	Methylene chloride	ND	10	5.0	ug/l	
100-42-5	Styrene	ND	5.0	2.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	3.3	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.8	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
87-61-6	1,2,3-Trichlorobenzene [b]	ND	5.0	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene [b]	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.7	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.7	ug/l	
79-01-6	Trichloroethene	137	5.0	2.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	140	5.0	2.6	ug/l	
	m,p-Xylene	ND	5.0	3.9	ug/l	
95-47-6	o-Xylene	ND	5.0	3.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	116%	114%	80-120%
2037-26-5	Toluene-D8	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	104%	102%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S		
Lab Sample ID:	JD58982-1	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99208.D	1	01/25/23 14:01	JN	n/a	n/a	GAA2716
Run #2	AA99209.D	5	01/25/23 14:14	JN	n/a	n/a	GAA2716

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	191 [a]	0.55	0.40	ug/l	
74-84-0	Ethane	18.1	0.23	0.14	ug/l	
74-85-1	Ethene	13.3	0.31	0.16	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S		
Lab Sample ID:	JD58982-1	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	< 100	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	43.5	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-17S		
Lab Sample ID:	JD58982-1	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	45.7	2.0	mg/l	1	01/23/23 20:14	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:10	MP	SM4500S2- F-11
Total Organic Carbon	2.5	1.0	mg/l	1	01/23/23 20:00	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-17S		
Lab Sample ID:	JD58982-1F	Date Sampled:	01/17/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	< 100	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	40.2	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	JD58982-2	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U52507.D	1	01/24/23 13:02	NW	n/a	n/a	V2U2082
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10.5	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	3.6	10	2.7	ug/l	J
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	50.1	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.6	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	JD58982-2	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	1.5	5.0	0.80	ug/l	J
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	0.69	1.0	0.56	ug/l	J
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	5.6	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	16.4	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	114%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	102%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	JD58982-2	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99210.D	1	01/25/23 14:28	JN	n/a	n/a	GAA2716
Run #2	AA99211.D	10	01/25/23 14:42	JN	n/a	n/a	GAA2716

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	362 [a]	1.1	0.80	ug/l	
74-84-0	Ethane	2.68	0.23	0.14	ug/l	
74-85-1	Ethene	15.7	0.31	0.16	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	JD58982-2	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	12100	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [3]
Manganese	49600	150	ug/l	10	01/24/23	01/30/23	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA53658
(2) Instrument QC Batch: MA53662
(3) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	JD58982-2	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	10	2.0	mg/l	1	01/23/23 20:27	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:14	MP	SM4500S2- F-11
Total Organic Carbon	84.9	5.0	mg/l	5	01/24/23 10:41	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	JD58982 2F	Date Sampled:	01/17/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	11100	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [3]
Manganese	50000	150	ug/l	10	01/24/23	01/30/23	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA53658
(2) Instrument QC Batch: MA53662
(3) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7S		
Lab Sample ID:	JD58982-3	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1U52443.D	1	01/23/23 17:12	NW	n/a	n/a	V1U2080
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.7	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7S		
Lab Sample ID:	JD58982-3	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane [a]	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene [a]	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	2.3	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	103%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7S		
Lab Sample ID:	JD58982-3	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA99212.D	1	01/25/23 14:55	JN	n/a	n/a	GAA2716
Run #2 [a]	AA99213.D	100	01/25/23 15:08	JN	n/a	n/a	GAA2716

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6820 [b]	11	8.0	ug/l	
74-84-0	Ethane	56.3	0.23	0.14	ug/l	
74-85-1	Ethene	8.34	0.31	0.16	ug/l	

(a) 5mm diameter bubble present in headspace.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7S		
Lab Sample ID:	JD58982-3	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	8590	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	3750	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7S		
Lab Sample ID:	JD58982-3	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	131	2.0	mg/l	1	01/23/23 18:30	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 09:37	MP	SM4500S2- F-11
Total Organic Carbon	2.9	1.0	mg/l	1	01/23/23 19:04	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7S		
Lab Sample ID:	JD58982-3F	Date Sampled:	01/17/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	9400	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	3600	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19S		
Lab Sample ID:	JD58982-4	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U52452.D	1	01/23/23 19:23	NW	n/a	n/a	V2U2080
Run #2	2U52458.D	10	01/23/23 20:50	NW	n/a	n/a	V2U2080

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	7.0	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	293 [b]	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.4	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19S		
Lab Sample ID:	JD58982-4	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	2.7	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	1.6	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	104	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	1.3	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	115%	114%	80-120%
2037-26-5	Toluene-D8	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	102%	103%	82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19S		
Lab Sample ID:	JD58982-4	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99215.D	1	01/25/23 15:36	JN	n/a	n/a	GAA2716
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.22	0.11	0.080	ug/l	
74-84-0	Ethane	ND	0.23	0.14	ug/l	
74-85-1	Ethene	ND	0.31	0.16	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19S		
Lab Sample ID:	JD58982-4	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	3660	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	244	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19S		
Lab Sample ID:	JD58982-4	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	27.8	2.0	mg/l	1	01/23/23 20:39	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:18	MP	SM4500S2- F-11
Total Organic Carbon	11.6	1.0	mg/l	1	01/23/23 20:45	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19S		
Lab Sample ID:	JD58982-4F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	< 100	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	28.2	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JD58982-5	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2U52444.D	20	01/23/23 17:27	NW	n/a	n/a	V2U2080
Run #2	1U52510.D	100	01/24/23 13:46	NW	n/a	n/a	V1U2082

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	200	61	ug/l	
71-43-2	Benzene	ND	10	8.5	ug/l	
74-97-5	Bromochloromethane	ND	20	9.6	ug/l	
75-27-4	Bromodichloromethane	ND	20	9.0	ug/l	
75-25-2	Bromoform	ND	20	13	ug/l	
74-83-9	Bromomethane [b]	ND	40	33	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	55	ug/l	
75-15-0	Carbon disulfide	ND	40	9.1	ug/l	
56-23-5	Carbon tetrachloride	ND	20	11	ug/l	
108-90-7	Chlorobenzene	ND	20	11	ug/l	
75-00-3	Chloroethane	ND	20	15	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane [b]	ND	20	15	ug/l	
110-82-7	Cyclohexane	ND	100	16	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	11	ug/l	
124-48-1	Dibromochloromethane	ND	20	11	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	9.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	11	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	40	11	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	11	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	12	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	12	ug/l	
156-59-2	cis-1,2-Dichloroethene	451	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	9.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	8.6	ug/l	
100-41-4	Ethylbenzene	67.2	20	12	ug/l	
76-13-1	Freon 113	ND	100	12	ug/l	
591-78-6	2-Hexanone	ND	100	41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JD58982-5	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	20	13	ug/l	
79-20-9	Methyl Acetate	ND	100	16	ug/l	
108-87-2	Methylcyclohexane	ND	100	12	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	118	100	37	ug/l	
75-09-2	Methylene chloride	ND	40	20	ug/l	
100-42-5	Styrene	ND	20	9.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	13	ug/l	
127-18-4	Tetrachloroethene	ND	20	11	ug/l	
108-88-3	Toluene	4130 [c]	100	49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	11	ug/l	
79-01-6	Trichloroethene	ND	20	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	8.0	ug/l	
75-01-4	Vinyl chloride	1060	20	10	ug/l	
	m,p-Xylene	410	20	16	ug/l	
95-47-6	o-Xylene	70.0	20	12	ug/l	
1330-20-7	Xylene (total)	480	20	12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	115%	114%	80-120%
2037-26-5	Toluene-D8	103%	98%	80-120%
460-00-4	4-Bromofluorobenzene	101%	103%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JD58982-5	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99217.D	100	01/25/23 16:02	JN	n/a	n/a	GAA2716
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	7100	11	8.0	ug/l	
74-84-0	Ethane	2100	23	14	ug/l	
74-85-1	Ethene	2530	31	16	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JD58982-5	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	134000	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	3330	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JD58982-5	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	< 2.0	2.0	mg/l	1	01/23/23 20:52	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:22	MP	SM4500S2- F-11
Total Organic Carbon	274	20	mg/l	20	01/24/23 10:52	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JD58982-5F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	146000	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	3760	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6B		
Lab Sample ID:	JD58982-6	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1U52447.D	200	01/23/23 18:10	NW	n/a	n/a	V1U2080
Run #2	1U52514.D	1000	01/24/23 14:44	NW	n/a	n/a	V1U2082

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2000	610	ug/l	
71-43-2	Benzene	ND	100	85	ug/l	
74-97-5	Bromochloromethane	ND	200	96	ug/l	
75-27-4	Bromodichloromethane	ND	200	90	ug/l	
75-25-2	Bromoform	ND	200	130	ug/l	
74-83-9	Bromomethane	ND	400	330	ug/l	
78-93-3	2-Butanone (MEK)	ND	2000	550	ug/l	
75-15-0	Carbon disulfide [b]	ND	400	91	ug/l	
56-23-5	Carbon tetrachloride	ND	200	110	ug/l	
108-90-7	Chlorobenzene	ND	200	110	ug/l	
75-00-3	Chloroethane	ND	200	150	ug/l	
67-66-3	Chloroform	ND	200	100	ug/l	
74-87-3	Chloromethane [b]	ND	200	150	ug/l	
110-82-7	Cyclohexane	ND	1000	160	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	110	ug/l	
124-48-1	Dibromochloromethane	ND	200	110	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	95	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	200	110	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	200	110	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	200	100	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	400	110	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	110	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	120	ug/l	
75-35-4	1,1-Dichloroethene	ND	200	120	ug/l	
156-59-2	cis-1,2-Dichloroethene	43200 [c]	1000	510	ug/l	
156-60-5	trans-1,2-Dichloroethene	230	200	110	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	94	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	86	ug/l	
100-41-4	Ethylbenzene	ND	200	120	ug/l	
76-13-1	Freon 113	ND	1000	120	ug/l	
591-78-6	2-Hexanone	ND	1000	410	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6B		
Lab Sample ID:	JD58982-6	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	200	130	ug/l	
79-20-9	Methyl Acetate	ND	1000	160	ug/l	
108-87-2	Methylcyclohexane [b]	ND	1000	120	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	370	ug/l	
75-09-2	Methylene chloride	ND	400	200	ug/l	
100-42-5	Styrene	ND	200	97	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	130	ug/l	
127-18-4	Tetrachloroethene	ND	200	110	ug/l	
108-88-3	Toluene	116	200	98	ug/l	J
87-61-6	1,2,3-Trichlorobenzene [b]	ND	200	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene [b]	ND	200	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	110	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	110	ug/l	
79-01-6	Trichloroethene	ND	200	110	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	80	ug/l	
75-01-4	Vinyl chloride	7350	200	100	ug/l	
	m,p-Xylene	ND	200	160	ug/l	
95-47-6	o-Xylene	ND	200	120	ug/l	
1330-20-7	Xylene (total)	ND	200	120	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	116%	112%	80-120%
2037-26-5	Toluene-D8	98%	98%	80-120%
460-00-4	4-Bromofluorobenzene	103%	103%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6B		
Lab Sample ID:	JD58982-6	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99219.D	1	01/25/23 16:30	JN	n/a	n/a	GAA2716
Run #2	AA99220.D	100	01/25/23 16:43	JN	n/a	n/a	GAA2716

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	3600 [a]	11	8.0	ug/l	
74-84-0	Ethane	21.5	0.23	0.14	ug/l	
74-85-1	Ethene	154	0.31	0.16	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6B		
Lab Sample ID:	JD58982-6	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1630	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	116	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6B		
Lab Sample ID:	JD58982-6	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	544	6.0	mg/l	3	01/24/23 16:10	SS	EPA 300/SW846 9056A
Sulfide	6.6	2.0	mg/l	1	01/23/23 10:25	MP	SM4500S2- F-11
Total Organic Carbon	141	5.0	mg/l	5	01/24/23 11:04	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6B		
Lab Sample ID:	JD58982-6F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	451	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	106	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-15S		
Lab Sample ID:	JD58982-7	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1U52512.D	1	01/24/23 14:15	NW	n/a	n/a	V1U2082
Run #2	2U52448.D	20	01/23/23 18:25	NW	n/a	n/a	V2U2080

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	3.8	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	1.8	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.9	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	3.6	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-15S		
Lab Sample ID:	JD58982-7	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane [a]	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	307 [b]	20	9.8	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	86.6	1.0	0.52	ug/l	
	m,p-Xylene	14.9	1.0	0.78	ug/l	
95-47-6	o-Xylene	10.9	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	25.8	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	115%	115%	80-120%
2037-26-5	Toluene-D8	102%	99%	80-120%
460-00-4	4-Bromofluorobenzene	102%	102%	82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-15S		
Lab Sample ID:	JD58982-7	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99222.D	100	01/25/23 17:10	JN	n/a	n/a	GAA2716
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	9670	11	8.0	ug/l	
74-84-0	Ethane	1250	23	14	ug/l	
74-85-1	Ethene	5430	31	16	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-15S		
Lab Sample ID:	JD58982-7	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	29800	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	1170	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-15S		
Lab Sample ID:	JD58982-7	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	< 2.0	2.0	mg/l	1	01/23/23 21:18	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:28	MP	SM4500S2- F-11
Total Organic Carbon	27.4	1.0	mg/l	1	01/23/23 21:28	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-15S		
Lab Sample ID:	JD58982-7F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	31900	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	1240	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	JD58982-8	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2U52513.D	2	01/24/23 14:30	NW	n/a	n/a	V2U2082
Run #2	1U52449.D	10	01/23/23 18:39	NW	n/a	n/a	V1U2080

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	6.1	ug/l	
71-43-2	Benzene	ND	1.0	0.85	ug/l	
74-97-5	Bromochloromethane	ND	2.0	0.96	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.90	ug/l	
75-25-2	Bromoform	ND	2.0	1.3	ug/l	
74-83-9	Bromomethane	ND	4.0	3.3	ug/l	
78-93-3	2-Butanone (MEK)	ND	20	5.5	ug/l	
75-15-0	Carbon disulfide [b]	ND	4.0	0.91	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.1	ug/l	
108-90-7	Chlorobenzene	ND	2.0	1.1	ug/l	
75-00-3	Chloroethane	ND	2.0	1.5	ug/l	
67-66-3	Chloroform	ND	2.0	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	1.5	ug/l	
110-82-7	Cyclohexane	ND	10	1.6	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	1.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.95	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	4.0	1.1	ug/l	
75-34-3	1,1-Dichloroethane	1.3	2.0	1.1	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	1.2	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.2	ug/l	
156-59-2	cis-1,2-Dichloroethene	334	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.1	2.0	1.1	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.94	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.86	ug/l	
100-41-4	Ethylbenzene	2.6	2.0	1.2	ug/l	
76-13-1	Freon 113	ND	10	1.2	ug/l	
591-78-6	2-Hexanone	ND	10	4.1	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	JD58982-8	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.0	1.3	ug/l	
79-20-9	Methyl Acetate	ND	10	1.6	ug/l	
108-87-2	Methylcyclohexane	ND	10	1.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	10	3.7	ug/l	
75-09-2	Methylene chloride	ND	4.0	2.0	ug/l	
100-42-5	Styrene	ND	2.0	0.97	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	1.3	ug/l	
127-18-4	Tetrachloroethene	ND	2.0	1.1	ug/l	
108-88-3	Toluene	93.2	2.0	0.98	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	1.1	ug/l	
79-01-6	Trichloroethene	ND	2.0	1.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	4.0	0.80	ug/l	
75-01-4	Vinyl chloride	817 [c]	10	5.2	ug/l	
	m,p-Xylene	9.6	2.0	1.6	ug/l	
95-47-6	o-Xylene	2.2	2.0	1.2	ug/l	
1330-20-7	Xylene (total)	11.8	2.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	113%	116%	80-120%
2037-26-5	Toluene-D8	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	100%	103%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	JD58982-8	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA99223.D	1	01/25/23 17:24	JN	n/a	n/a	GAA2716
Run #2 [a]	AA99224.D	100	01/25/23 17:37	JN	n/a	n/a	GAA2716

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	10500 [b]	11	8.0	ug/l	
74-84-0	Ethane	184	0.23	0.14	ug/l	
74-85-1	Ethene	206	0.31	0.16	ug/l	

(a) 2mm diameter bubble present in headspace.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	JD58982-8	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6390	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	462	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	JD58982-8	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	6.6	2.0	mg/l	1	01/23/23 21:31	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:32	MP	SM4500S2- F-11
Total Organic Carbon	8.0	5.0	mg/l	5	01/24/23 11:17	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	JD58982 8F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6090	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	481	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	JD58982-9	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U52442.D	1	01/23/23 16:57	NW	n/a	n/a	V2U2080
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	JD58982-9	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	115%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	103%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	JD58982-9	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99232.D	1	01/26/23 10:01	JN	n/a	n/a	GAA2717
Run #2	AA99234.D	5	01/26/23 10:28	JN	n/a	n/a	GAA2717
Run #3	AA99233.D	100	01/26/23 10:15	JN	n/a	n/a	GAA2717

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4240 [a]	11	8.0	ug/l	
74-84-0	Ethane	325 [b]	1.2	0.70	ug/l	
74-85-1	Ethene	17.8	0.31	0.16	ug/l	

(a) Result is from Run# 3
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	JD58982-9	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	18100	100	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	2330	15	ug/l	1	01/24/23	01/27/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53658
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	JD58982-9	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	28.0	2.0	mg/l	1	01/23/23 21:44	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:34	MP	SM4500S2- F-11
Total Organic Carbon	9.4	1.0	mg/l	1	01/23/23 22:12	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	JD58982-9F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	18600	100	ug/l	1	01/24/23	02/01/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	2490	15	ug/l	1	01/24/23	02/01/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53678
(2) Prep QC Batch: MP37566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD58982-10	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2U52450.D	200	01/23/23 18:54	NW	n/a	n/a	V2U2080
Run #2 [b]	2U52515.D	500	01/24/23 14:59	NW	n/a	n/a	V2U2082

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [c]	ND	2000	610	ug/l	
71-43-2	Benzene	ND	100	85	ug/l	
74-97-5	Bromochloromethane	ND	200	96	ug/l	
75-27-4	Bromodichloromethane	ND	200	90	ug/l	
75-25-2	Bromoform	ND	200	130	ug/l	
74-83-9	Bromomethane [c]	ND	400	330	ug/l	
78-93-3	2-Butanone (MEK)	ND	2000	550	ug/l	
75-15-0	Carbon disulfide	ND	400	91	ug/l	
56-23-5	Carbon tetrachloride	ND	200	110	ug/l	
108-90-7	Chlorobenzene	ND	200	110	ug/l	
75-00-3	Chloroethane	ND	200	150	ug/l	
67-66-3	Chloroform	ND	200	100	ug/l	
74-87-3	Chloromethane [c]	ND	200	150	ug/l	
110-82-7	Cyclohexane	ND	1000	160	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	110	ug/l	
124-48-1	Dibromochloromethane	ND	200	110	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	95	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	200	110	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	200	110	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	200	100	ug/l	
75-71-8	Dichlorodifluoromethane [c]	ND	400	110	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	110	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	120	ug/l	
75-35-4	1,1-Dichloroethene	212	200	120	ug/l	
156-59-2	cis-1,2-Dichloroethene	48200 [d]	500	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	289	200	110	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	94	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	86	ug/l	
100-41-4	Ethylbenzene	178	200	120	ug/l	J
76-13-1	Freon 113	ND	1000	120	ug/l	
591-78-6	2-Hexanone	ND	1000	410	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD58982-10	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	200	130	ug/l	
79-20-9	Methyl Acetate	ND	1000	160	ug/l	
108-87-2	Methylcyclohexane	ND	1000	120	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	370	ug/l	
75-09-2	Methylene chloride	ND	400	200	ug/l	
100-42-5	Styrene	ND	200	97	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	130	ug/l	
127-18-4	Tetrachloroethene	ND	200	110	ug/l	
108-88-3	Toluene	1880	200	98	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	200	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	110	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	110	ug/l	
79-01-6	Trichloroethene	7550	200	110	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	80	ug/l	
75-01-4	Vinyl chloride	22500	200	100	ug/l	
	m,p-Xylene	361	200	160	ug/l	
95-47-6	o-Xylene	120	200	120	ug/l	J
1330-20-7	Xylene (total)	481	200	120	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	115%	112%	80-120%
2037-26-5	Toluene-D8	99%	98%	80-120%
460-00-4	4-Bromofluorobenzene	101%	101%	82-114%

(a) (pH= 4)Sample pH did not satisfy field preservation criteria. Dilution required due to high concentration of target compound.
(b) (pH= 3)Sample pH did not satisfy field preservation criteria.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD58982-10	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA99236.D	1	01/26/23 10:56	JN	n/a	n/a	GAA2717
Run #2 [a]	AA99238.D	10	01/26/23 11:23	JN	n/a	n/a	GAA2717
Run #3 [a]	AA99237.D	100	01/26/23 11:10	JN	n/a	n/a	GAA2717

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	5910 [b]	11	8.0	ug/l	
74-84-0	Ethane	174	0.23	0.14	ug/l	
74-85-1	Ethene	1390 [c]	3.1	1.6	ug/l	

(a) (pH= 3)Sample pH did not satisfy field preservation criteria. 3mm diameter bubble present in headspace.
(b) Result is from Run# 3
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD58982-10	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron [a]	< 500	500	ug/l	5	01/25/23	01/31/23	EAL	SW846 6010D [2]	SW846 3010A [3]
Manganese	90.6	15	ug/l	1	01/25/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA53661
(2) Instrument QC Batch: MA53671
(3) Prep QC Batch: MP37576

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD58982-10	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	117	2.0	mg/l	1	01/23/23 21:57	SS	EPA 300/SW846 9056A
Sulfide	155	2.0	mg/l	1	01/23/23 10:38	MP	SM4500S2- F-11
Total Organic Carbon	95.0	5.0	mg/l	5	01/24/23 11:26	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD58982-10F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron [a]	< 500	500	ug/l	5	01/25/23	01/31/23	EAL	SW846 6010D [2]	SW846 3010A [3]
Manganese	88.5	15	ug/l	1	01/25/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA53661
(2) Instrument QC Batch: MA53671
(3) Prep QC Batch: MP37576

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-13S		
Lab Sample ID:	JD58982-11	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1U52451.D	50	01/23/23 19:08	NW	n/a	n/a	V1U2080
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	ug/l	
74-97-5	Bromochloromethane	ND	50	24	ug/l	
75-27-4	Bromodichloromethane	ND	50	23	ug/l	
75-25-2	Bromoform	ND	50	32	ug/l	
74-83-9	Bromomethane	ND	100	82	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	140	ug/l	
75-15-0	Carbon disulfide [b]	ND	100	23	ug/l	
56-23-5	Carbon tetrachloride	ND	50	28	ug/l	
108-90-7	Chlorobenzene	ND	50	28	ug/l	
75-00-3	Chloroethane	ND	50	36	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane [b]	ND	50	38	ug/l	
110-82-7	Cyclohexane	ND	250	39	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	26	ug/l	
124-48-1	Dibromochloromethane	ND	50	28	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	24	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	27	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	100	28	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	28	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	30	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	30	ug/l	
156-59-2	cis-1,2-Dichloroethene	6670	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	44.3	50	27	ug/l	J
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	24	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	22	ug/l	
100-41-4	Ethylbenzene	ND	50	30	ug/l	
76-13-1	Freon 113	ND	250	29	ug/l	
591-78-6	2-Hexanone	ND	250	100	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13S		
Lab Sample ID:	JD58982-11	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	50	32	ug/l	
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane [b]	ND	250	30	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	93	ug/l	
75-09-2	Methylene chloride	ND	100	50	ug/l	
100-42-5	Styrene	ND	50	24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	33	ug/l	
127-18-4	Tetrachloroethene	ND	50	28	ug/l	
108-88-3	Toluene	ND	50	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene [b]	ND	50	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene [b]	ND	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	27	ug/l	
79-01-6	Trichloroethene	ND	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/l	
75-01-4	Vinyl chloride	1830	50	26	ug/l	
	m,p-Xylene	ND	50	39	ug/l	
95-47-6	o-Xylene	ND	50	30	ug/l	
1330-20-7	Xylene (total)	ND	50	30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	103%		82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13S		
Lab Sample ID:	JD58982-11	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99239.D	1	01/26/23 11:37	JN	n/a	n/a	GAA2717
Run #2	AA99240.D	10	01/26/23 11:58	JN	n/a	n/a	GAA2717

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	757 [a]	1.1	0.80	ug/l	
74-84-0	Ethane	3.65	0.23	0.14	ug/l	
74-85-1	Ethene	109	0.31	0.16	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13S		
Lab Sample ID:	JD58982-11	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	767	100	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	149	15	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53661
(2) Prep QC Batch: MP37567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-13S		
Lab Sample ID:	JD58982-11	Date Sampled:	01/18/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	559	6.0	mg/l	3	01/24/23 16:23	SS	EPA 300/SW846 9056A
Sulfide	19.2	2.0	mg/l	1	01/23/23 10:42	MP	SM4500S2- F-11
Total Organic Carbon	48.5	1.0	mg/l	1	01/23/23 23:19	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-13S		
Lab Sample ID:	JD58982-11F	Date Sampled:	01/18/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	364	100	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	152	15	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53661
(2) Prep QC Batch: MP37567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-20230117		
Lab Sample ID:	JD58982-12	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U52509.D	1	01/24/23 13:32	NW	n/a	n/a	V2U2082
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.9	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-20230117		
Lab Sample ID:	JD58982-12	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	2.3	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	102%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-20230117		
Lab Sample ID:	JD58982-12	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99241.D	1	01/26/23 12:13	JN	n/a	n/a	GAA2717
Run #2	AA99242.D	100	01/26/23 12:26	JN	n/a	n/a	GAA2717

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	5990 [a]	11	8.0	ug/l	
74-84-0	Ethane	41.7	0.23	0.14	ug/l	
74-85-1	Ethene	5.68	0.31	0.16	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-20230117		
Lab Sample ID:	JD58982-12	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	7250	100	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	3550	15	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53661
(2) Prep QC Batch: MP37567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-20230117		
Lab Sample ID:	JD58982-12	Date Sampled:	01/17/23
Matrix:	AQ - Ground Water	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	127	2.0	mg/l	1	01/23/23 22:49	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/23/23 10:45	MP	SM4500S2- F-11
Total Organic Carbon	3.7	1.0	mg/l	1	01/23/23 23:30	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-20230117		
Lab Sample ID:	JD58982-12F	Date Sampled:	01/17/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/20/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	9340	100	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]
Manganese	3660	15	ug/l	1	01/24/23	01/29/23	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53661
(2) Prep QC Batch: MP37567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD58982-13	Date Sampled:	01/18/23
Matrix:	AQ - Trip Blank Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1U52437.D	1	01/23/23 15:44	NW	n/a	n/a	V1U2080
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD58982-13	Date Sampled:	01/18/23
Matrix:	AQ - Trip Blank Water	Date Received:	01/20/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane [a]	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene [a]	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	104%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS

EHSA-QAC-0023-04-FORM-Standard COC

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

JD58982

FED-EX Tracking #:
Bottle Order Control #: TS-01923-71
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: Arcadis
Street Address: 110 W. Fayette St Suite 300
City / State / Zip: Syracuse, NY 13202
Project Contact: Chris Kassel
E-mail: chris.kassel@arcadis.com; edward.mason@ " "
Phone #: 315-671-9127
Sampler(s) Name(s): Kaitlyn Fleming & Bailey K
Phone #: 585-880-7747

Project Information

Project Name: Old Erie Canal Site
Street: 24 Columbia St
City / State: Clyde, NY
Project #:
Client Purchase Order #:
Project Manager: Corey Averill

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

1. V8260TCL20 - VOCs
2. VRSK175DGMEE - Diss. Gases
3. TOT MET [Fe, Mn]
4. SO4 - Sulfate
5. Sulfide
6. DISS MET [FF] [Fe, Mn]
7. TOC

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

pH Check (Lab Use Only)

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	Diss. Gases	TOT MET	SO4	Sulfide	DISS MET	TOC	LAB USE ONLY
1F	MW-17S		1/17/23	1200	BK	G	N	GW	12	7 [overwritten, uncertain]	2	2		1				X	X	X	X	X	X	X	
2F	MW-1S		1/17/23	1500	KF	G	N	GW	12	7 [overwritten, uncertain]	2	2		1				X	X	X	X	X	X	X	
3F	MW-7S		1/17/23	1500	BK	G	N	GW	48	28	8	8		4				X	X	X	X	X	X	X	[illegible] ms/msd [uncertain]
4F	MW-19S		1/18/23	0800	KF	G	N	GW	12	7 [overwritten, uncertain]	2	2		1				X	X	X	X	X	X	X	
5F	MW-6S		1/18/23	0955	KF	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	A20
6F	MW-6B		1/18/23	1200	KF	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	G51
7F	MW-15S		1/18/23	1000	BK	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	V092
8F	MW-14S		1/18/23	1400	KF	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	19C5
9F	MW-4S		1/18/23	1230	BK	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	
10F	MW-4B		1/18/23	1455	BK	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	
11F	MW-13S		1/18/23	1535	KF	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	
12F	DUP-20230117		1/18/23	—	BK	G	N	GW	12	7	2	2		1				X	X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [X] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment: 1B EC
Label Verification:

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 Kaitlyn F. [signature]	1/18/2023 1700 [uncertain]	1 FedEx	2 FedEx	1/19/23 10:00	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact ☐ Absent	Therm ID: On Ice ☐ Cooler Temp. °C See Sample Receipt Summary

1.7 1.5
1.1 [uncertain] 2.3 [uncertain]

JD58982: Chain of Custody

CHAIN OF CUSTODY

JD58982

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

FED-EX Tracking # | Bottle Order Control #
SGS Quote # | SGS Job #

Client / Reporting Information

Company Name:
Street Address
City State Zip
Project Contact E-mail
Phone #
Sampler(s) Name(s) Phone #

Project Information

Project Name:
Street
City State
Project #
Client Purchase Order #
Project Manager

Billing Information (if different from Report to)

Company Name
Street Address
City State Zip
Attention:

Requested Analysis

VOC's

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection: Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	LAB USE ONLY
13	Trip Blank		—	—	—	G	N	DI	2	X								X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	Fedex	1/18/23 1700	Fedex		1/19/23 10:00	
2						
3						
4						
5						

Custody Seal # ☐ Intact ☐ Not intact ☐ Absent

Therm ID: ☐ On Ice ☐ See Sample Receipt Summary

Cooler Temp. °C

SGS Sample Receipt Summary

Job Number: JD58982 **Client:** ARCADIS U.S. **Project:** OLD ERIE CANAL SITE, 124 COLUMBIA S

Date / Time Received: 1/20/2023 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (1.7); Cooler 2: (1.1); Cooler 3: (1.5); Cooler 4: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.7); Cooler 2: (1.1); Cooler 3: (1.5); Cooler 4: (2.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	4		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Sample Summary

Arcadis

Job No: JD59359

Old Erie Canal Site, 124 Columbia Street, Clyde, NY
Project No: 30147041.4

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD59359-1	01/26/23	09:30	FK	01/27/23	AQ	Ground Water	MW-18S
JD59359-1F	01/26/23	09:30	FK	01/27/23	AQ	Groundwater Filtered	MW-18S

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Report of Analysis

Client Sample ID:	MW-18S		
Lab Sample ID:	JD59359-1	Date Sampled:	01/26/23
Matrix:	AQ - Ground Water	Date Received:	01/27/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A223365.D	1	01/31/23 11:22	ED	n/a	n/a	V2A9711
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	31.5	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.69	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18S		
Lab Sample ID:	JD59359-1	Date Sampled:	01/26/23
Matrix:	AQ - Ground Water	Date Received:	01/27/23
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene [a]	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	3.0	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride [b]	6.8	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18S		
Lab Sample ID:	JD59359-1	Date Sampled:	01/26/23
Matrix:	AQ - Ground Water	Date Received:	01/27/23
Method:	RSK-175	Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA99284.D	1	02/01/23 12:06	JL	n/a	n/a	GAA2719
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.20	0.11	0.080	ug/l	
74-84-0	Ethane	ND	0.23	0.14	ug/l	
74-85-1	Ethene	ND	0.31	0.16	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18S		
Lab Sample ID:	JD59359-1	Date Sampled:	01/26/23
Matrix:	AQ - Ground Water	Date Received:	01/27/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1510	100	ug/l	1	01/30/23	01/31/23	EAL	SW846 6010D [1]	SW846 3010A [2]
Manganese	308	15	ug/l	1	01/30/23	01/31/23	EAL	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53671
(2) Prep QC Batch: MP37652

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-18S		
Lab Sample ID:	JD59359-1	Date Sampled:	01/26/23
Matrix:	AQ - Ground Water	Date Received:	01/27/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	45.7	2.0	mg/l	1	01/30/23 21:47	SS	EPA 300/SW846 9056A
Sulfide	< 2.0	2.0	mg/l	1	01/30/23 11:51	MP	SM4500S2- F-11
Total Organic Carbon	18.5	1.0	mg/l	1	01/31/23 17:37	MB	SM5310 B-11/14

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-18S		
Lab Sample ID:	JD59359-1F	Date Sampled:	01/26/23
Matrix:	AQ - Groundwater Filtered	Date Received:	01/27/23
		Percent Solids:	n/a
Project:	Old Erie Canal Site, 124 Columbia Street, Clyde, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	< 100	100	ug/l	1	01/30/23	01/31/23	EAL	SW846 6010D [1]	SW846 3010A [2]
Manganese	195	15	ug/l	1	01/30/23	01/31/23	EAL	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA53671
(2) Prep QC Batch: MP37652

RL = Reporting Limit

SGS GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

JD 59359

Page 1 of 1

EHSA-QAC-0023-04-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: TS-01923-71
SGS Quote #: 2021 2083
SGS Job #:

Client / Reporting Information

Company Name: Arcadis
Street Address: 110 W. Fayette Street, Suite 300
City / State / Zip: Syracuse, NY 13202
Project Contact / E-mail: Chris Kassel chris.kassel@arcadis.com cc: edward.mason@arcadis.com
Phone #: 315-671-9127
Sampler(s) Name(s) / Phone #: Kaitlyn Fleming and Bailey Kudla-Williams 619-727-1921

Project Information

Project Name: Old Erie Canal Site
Street: 24 Columbia Street
City / State: Clyde NY
Project #: 30147041.4
Client Purchase Order #:
Project Manager: Corey Averill

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	EnCore	VOCs	Iron, Manganese	Dissolved Iron, Manganese (Field Filtered)	Dissolved Gasses (ethane, ethene, and methane)	Sulfate	Sulfide	Total Organic Carbon	pH Check (Lab Use Only)	LAB USE ONLY
1F	MW-18S		1/26/23	0930	KF	G	-	GW	12	7	2	2		1				X	X	X	X	X	X	X		
						G		GW																		
						G		GW																		
						G		GW																		
						G		GW																		
						G		GW																		
						G		GW																		
						G		GW																		
						G		GW																		
						G		GW																		

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [x] EDD Format EQuIS-5 (4-file)
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	Kaitlyn Fleming Arcadis	1/26/23 1330	1 fedex
2	Relinquished By: fedex	1/27/23 10:00	Received By:
3	Relinquished by:	Date / Time:	Received By:
4	Relinquished By:	Date / Time:	Received By:
5	Relinquished by:	Date / Time:	Received By:

Custody Seal # ☐ Intact ☐ Not Intact ☐ Absent

Therm ID: See Sample Receipt Summary ☑ On Ice Cooler Temp. °C 3 | 0.0

SGS Sample Receipt Summary

Job Number: JD59359 **Client:** ARCADIS U.S. **Project:** OLD ERIE CANAL SITE, 124 COLUMBIA S

Date / Time Received: 1/27/2023 10:10:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17