GeoLogic NY, P.C. P. O. Box 350 • 37 Copeland Ave. • Homer, NY 13077 • 607-749-5000

PERIODIC REVIEW REPORT (PRR)
P&S BOYD AVE.
50 BOYD AVENUE
SOLVAY, NEW YORK
SITE NO.: C734102

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 7
Attn: Mr. Michael Belveg, Assistant Engineer
615 Erie Boulevard West
Syracuse, New York 13204

Owner:

Pass & Seymour, Inc.
50 Boyd Avenue
Solvay, New York 13209

Prepared By:

GeoLogic NY, P.C.
37 Copeland Avenue
P.O. Box 350
Homer, New York 13077

February 2023
Revised March 2023

Reporting Period: January 15, 2022 to January 15, 2023

GeoLogic Project No. 222025

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1 INTRODUCTION

This report provides the basis for review and certification of the institutional controls and engineering controls (ICs/ECs) implemented at P&S / Boyd Ave., Site No. C734102 (Site). The Site remains owned by Pass & Seymour, Inc. (P&S). The reporting period addressed in this report is January 15, 2022 to January 15, 2023. The completed IC/EC Certification Form is included in Appendix A. GeoLogic NY, P.C. (GeoLogic) was retained in 2022 to serve as environmental consultant to P&S.

1.1 Site Summary

Former manufacturing activities at the Site, which ceased in the 1990s, resulted in contamination of soil, soil vapor and groundwater with chlorinated volatile organic compounds (cVOCs), primarily trichloroethylene (TCE) and cis-1,2-Dichloroethene (DCE); tetrachloroethylene (PCE) was also detected in some areas. Soil excavation and installation of a sub-slab depressurization system (SSDS) were completed at the Site in 2008. Groundwater treatment utilizing in-situ chemical oxidation (ISCO) was completed at the Site in 2010. A cover system, to prevent exposure to contaminated soil, was also constructed in 2010. An Environmental Easement was filed in October 2010. A Site Management Plan (SMP) was approved by the NYSDEC in November 2010. The Certificate of Completion was issued by the NYSDEC on December 16, 2010.

A second ISCO injection event was completed in November 2012. Additional soil excavation was completed in 2018. Various modifications were made to the groundwater monitoring program since the SMP was approved in 2010. The SMP was amended in 2020 to reflect these changes. Site management, including groundwater monitoring, is ongoing.

2 SITE OVERVIEW

2.1 Site Location and Description

The Site is located at 50 Boyd Avenue, in the Village of Solvay, Onondaga County, New York (Drawing No. 1A, Appendix B). The Site is approximately 18.07 acres in size and includes three tax parcels (001.-01-04.0, 001.-01-05.0 and 001.-03-04.0).

The Site is currently developed with a four-story office building occupying approximately 45,000 square feet. An asphalt-paved parking area is located southeast of the office building. The concrete slab from a large former manufacturing building that was demolished in or around 2005 and associated asphalt-paved parking area are located west and southwest of the office building. A wooded area is located west of the parking area for the former manufacturing building.

A solar array is located in a grass area located south of four-story office building at the Site (Drawing No. 1B, Appendix B). The solar array was constructed in June 2013 in an area that did not include engineering controls and was constructed on a base of crushed stone over a geotextile fabric.

The properties surrounding the Site are predominately utilized for commercial and industrial uses. A former municipal solid waste landfill is located northwest of the Site. A wholesale insulation company, a furniture and mattress store and real estate office are located east of the Site. Railroad tracks and Milton Avenue are located south of the Site. A mixture of residences and commercial business are located further south of the Site. A foundry is located west of the Site.

2.2 Site History

The history of the Site was stated in Section 2.2 of the Remedial Investigation (RI) report, dated October 2009, authored by S&W Redevelopment of North America, LLC (SWRNA).

The Site was originally constructed in the 1800s and was utilized as a steel mill. By 1911, the Site was occupied by P&S. The Site has been utilized for the manufacturing of porcelain insulators and contained clay and metal working areas and multiple kilns. New buildings and processes were added over the years. By 1950, the Site was also utilized to manufacture electrical equipment and also contained paint spraying and lacquer spraying areas. By 1968, most of the Site features had been constructed and the layout remained similar until the former manufacturing facility was demolished in 2005.

2.3 Nature and Extent of Contamination

P&S submitted a Brownfield Cleanup Program (BCP) application to the NYSDEC in October of 2004 and a Brownfield Cleanup Agreement (BCA) was executed in March 2005. The BCA required P&S to determine the nature and extent of the contamination from historic operations, and subsequently remediate the Site to support commercial use.

A Remedial Investigation (RI) was completed at the Site in 2005 and 2006. Supplemental RI activities were completed at the Site in 2007 and 2008. The RI report, dated October 2009, authored by SWRNA detailed the results of the RI and was approved by the NYSDEC.

The RI identified contamination primarily in the central portion of the Site. The contaminants of concern were identified as cVOCs, primarily TCE and DCE (although PCE was also detected in some samples). The affected media were identified as soil, groundwater (both overburden and bedrock) and soil vapor. The potential sources were identified as the former chemical storage area (east of the former electroplating area), the former TCE storage tank area (west of the existing office building) and the former electroplating area (on the east side of the manufacturing building).

2.4 Chronology of Site Remedial Program

The remedial program for the Site was completed in accordance work plans approved by the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH). Remedial activities have included excavation of impacted soils and two rounds of In-Situ Chemical Oxidation (ISCO) to reduce contaminant concentrations in groundwater at the Site. The Site is currently managed in accordance with the department-approved Site Management Plan (SMP). Site management, including groundwater monitoring is ongoing.

2.5 Remedial Action Objectives (RAOs)

The Remedial Action Objectives (RAOs) for the Site were identified in the Final Engineering Report (FER), dated November 2010, authored by SWRNA and are listed below:

2.5.1 Groundwater RAOs

RAOs for Public Health Protection:

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection:

- Restore groundwater aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

2.5.2 Soil RAOs

RAOs for Public Health Protection:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection:

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

2.5.3 Surface Water RAOs

RAOs for Public Health Protection:

- Prevent ingestion of contaminated water.
- Prevent contact or inhalation of contaminants from impacted water bodies.

- Prevent surface water contamination that may result in fish advisories.

RAOs for Environmental Protection:

- Restore surface water to ambient water quality standards for each contaminant of concern.

- Prevent impacts to biota due to ingestion/direct contact with contaminated surface water that would cause toxicity or bioaccumulation through the marine or aquatic food chain.

As noted in the FER, no surface water bodies are located on the Site or immediately adjacent to the Site, and the RI did not indicate site-related contaminants have impacted any off-site surface water bodies.

2.5.4 Sediment RAOs

RAOs for Public Health Protection:

- Prevent direct contact with contaminated sediments.

RAOs for Environmental Protection:

- Prevent release(s) of contaminant(s) from sediments that would results in surface water levels in excess of ambient water quality criteria.

- Prevent impacts to biota due to ingestion/direct contact with contaminated sediments that would cause toxicity or bioaccumulation through the marine or aquatic food chain.

As noted in the FER, no aquatic sediments exist on the Site or immediately adjacent to the Site, and the RI did not indicate site-related contaminants have impacted any off-site sediments.

2.6 Cleanup and Site Closure Criteria

The standards that apply to the Site are listed below.

- For groundwater, New York State groundwater quality standards (Class GA) as listed by the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) apply. The current standard for TCE is 5 µg/L.

- For Soils, Brownfield Soil Cleanup Objectives (SCOs) for restricted commercial use apply, listed in 6 NYCRR Part 375-6.8(b).

- For soil vapor, the objective is to reduce the potential for exposure via soil vapor intrusion pathways. The remedial objective is for indoor air quality to be as close to background as practicable, per The NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

3 INSTITUTIONAL AND ENGINEERING CONTROLS

3.1 Summary of Institutional Controls (ICs)

ICs have been implemented at the Site to mitigate the potential for human and ecological exposure to soil and groundwater. The ICs are described below:

- An Environmental Easement pursuant to ECL 71-3605 was filed with the applicable government bodies.
- The use of groundwater is prohibited, except with prior approval by the NYSDEC and NYSDOH.
- The future use of the Site is restricted to commercial or industrial uses as defined in 6 NYCRR Part 375.
- The SMP, which includes an Excavation Work Plan for the Site, must be followed.

3.2 Summary of Engineering Controls (ECs)

Two ECs have been implemented at the Site, a soil cover system and a SSDS. The ECs are described below:

- The soil cover system was constructed to prevent exposure to contamination remaining in soil/fill at the Site. The soil cover system was constructed of a minimum of twelve inches of clean soil fill, or six inches of existing asphalt pavement or six inches of existing concrete building slabs. The soil cover system is managed in accordance with the SMP.
- The SSDS was installed in the main office building at the Site to mitigate the potential SVI. The SSDS is operated and maintained in accordance with the SMP

3.2.1 Summary of ECs Operations During Reporting Period

The soil cover system has been monitored by P&S personnel, in accordance with the recommendations detailed in the SMP. GeoLogic also inspected the soil cover system in September 2022 and confirmed it is functioning as designed. The soil cover system will continue to be monitored and maintained by P&S personnel and GeoLogic in accordance with the SMP.

The SSDS has been monitored by P&S personnel, in accordance with the recommendations detailed in the SMP. The layout of the SSDS in depicted on Drawing No. 3, located in Appendix C. The following summarizes the operation of the SSDS during this reporting period:

- As noted in the 2022 PRR for the Site, the pressure gauge for the S2 (northside) was not functioning. In addition, sometime after the February 2022 pressure reading were made, the motor on the extraction fan malfunctioned.

- On or about March 17, 2022 the pressure gauge on S2 was replaced and a new motor was installed on the fan.

- On or about March 31, 2022, the bearing in the fan burned out and the system was shut down.

- A new fan was ordered; however, due to supply chain and COVID-related issues, the arrival of the new fan was delayed.

- On or about May 10, 2022, a temporary blower was installed as an interim measure. Vacuum readings were collected after the temporary blower was installed and readings exceeded the minimum performance objective specified in the SMP.

- On or about October 7, 2022, the new permanent fan was installed. Vacuum readings were collected after the new fan was installed and the readings exceeded the minimum performance objective specified in the SMP.

Table No. 4, located in Appendix C, summarizes the pressure differential readings collected by P&S personnel to demonstrate that the SSDS is operating as intended. The minimum negative pressure (or vacuum) reading required is -0.002 inches of water column (in. WC). With the exception of April 2022, when the SSDS was down, all readings exceeded the minimum negative pressure. The SSDS will continue to be monitored and maintained by P&S personnel in accordance with the SMP.

4 MONITORING PLAN

4.1 Monitoring Plan Components

Monitoring at the Site currently consists of sampling selected groundwater monitoring wells in the first and third quarters of the year. The monitoring wells at the Site are categorized both by where they are located and by where they are screened, overburden or bedrock. The locations of the groundwater monitoring wells are depicted on Drawing No. 2, Appendix B. The 18 wells currently sampled at the Site are summarized below:

Well #	Sampled 1st Q. (Y/N)	Sampled 3rd Q. (Y/N)	Location / AOC	Overburden or Bedrock
BR07-31	N	Y	Landfill	Bedrock
BR07-32	N	Y	Up-gradient	Bedrock
BR08-33	N	Y	Off-Site	Bedrock
BR08-34	N	Y	Off-Site	Bedrock
BR08-35	N	Y	Off-Site	Bedrock
BR09-37	Y	Y	AOC 1	Bedrock
BR09-39	Y	Y	AOC 1	Bedrock
BR10-46	Y	Y	AOC 1	Bedrock

Well #	Sampled 1st Q. (Y/N)	Sampled 3rd Q. (Y/N)	Location / AOC	Overburden or Bedrock
BR10-47	Y	Y	AOC 1	Bedrock
IW2-1	Y	Y	AOC 2	Overburden
IW2-3	Y	Y	AOC 2	Overburden
MW05-10	N	Y	AOC 1	Overburden
MW05-21	N	Y	Landfill	Overburden
OB09-36	N	Y	AOC 2	Overburden
OB09-38	N	Y	AOC 2	Overburden
OW1-1	Y	Y	AOC 1	Bedrock
OW1-4	Y	Y	AOC 1	Bedrock
OW2-2	N	Y	AOC 2	Overburden

Data trends and supporting tables are discussed in Section 5.

4.2 Summary of Monitoring Completed During Reporting Period

The following sampling has taken place during this reporting period:

- The 1st Quarter 2022 groundwater monitoring event included sampling of eight (8) monitoring wells.
- The 3rd Quarter 2022 groundwater monitoring event included sampling of all eighteen (18) monitoring wells.

The results of each sampling event are summarized in reports submitted to the NYSDEC and NYSDOH after each monitoring event.

4.2.1 Summary of Groundwater Sampling

The depth to groundwater was measured in each well prior to collecting groundwater samples. Depth to groundwater, calculated groundwater elevations and purge volumes are summarized on Table No. 1, located in Appendix C.

Field observations, including temperature, pH, conductivity, turbidity, Oxidation Reduction Potential (ORP), and Dissolved Oxygen (DO), were measured and recorded during the groundwater monitoring events completed during this report period. The field parameters are summarized in Table No. 2, located in Appendix C.

All groundwater samples were submitted to Eurofins Buffalo, located at 10 Hazelwood Drive, Amherst, New York 14228 (Eurofins) for laboratory analysis. Eurofins is an independent Environmental Laboratory Approval Program (ELAP) certified laboratory. The groundwater samples were analyzed for Volatile Organic Compounds (VOCs) on the target compound list (TCL) using EPA Method 8260, Iron, Manganese, Nitrate, Chemical Oxygen Demand (COD), and Total Organic Carbon (TOC).

The groundwater analytical results for 2022 are summarized in Table No. 3, Appendix C. The results were reviewed and compared to Class GA water quality standards and/or guidance values listed in the NYSDEC Division of Water Technical and Operation Guidance Series 1.1.1 (TOGS 1.1.1, June 1998). Chlorinated VOC concentrations detected in the groundwater samples are depicted on Drawing No. 2, Appendix B. Pre-ISCO chlorinated VOC concentrations (where such data is available) are summarized on Table No. 3, Appendix C.

4.3 Monitoring Deficiencies

No monitoring deficiencies were noted during this reporting period.

5 DATA TRENDS AND REMEDIAL EFFECTIVENESS

5.1 Data Summary

Data from the groundwater sampling events are summarized in the following drawing and tables included in Appendix B and Appendix C:

APPENDIX B: Drawings

- Drawing No. 2: Monitoring Well Location Plan & 2022 Chlorinated VOC Analytical Results.

APPENDIX C: Tables

- Table No. 1: Groundwater Elevations;
- Table No. 2: Field Parameters;
- Table No. 3: Summary of 2022 Groundwater Analytical Results.

5.2 Groundwater Contaminant Concentrations

Groundwater contaminant concentrations are discussed for each area of the Site are discussed below.

5.2.1 Downgradient Monitoring Wells: Contaminant Concentrations

The downgradient monitoring wells are located off-site and north of AOC-1 and AOC-2. The following three monitoring wells are located downgradient:

- MW08-33 (Bedrock);
- MW08-34 (Bedrock);
- MW08-35 (Bedrock).

All three of the downgradient monitoring wells are bedrock wells and were installed to monitor for downgradient, off-site impact from the Site. The downgradient monitoring wells are sampled in the 3rd quarter.

No chlorinated VOCs were detected in the 2022 samples.

5.2.2 AOC-1 Monitoring Wells: Contaminant Concentrations

AOC-1 is located in the central portion of the Site. The following seven monitoring wells are located within AOC-1:

- MW09-37 (Bedrock);
- MW09-39(Bedrock);
- MW10-46 (Bedrock);
- MW10-47 (Bedrock);
- MW05-10 (Overburden);
- OW1-1 (Bedrock);
- OW1-4 (Bedrock);

Of the seven monitoring wells located in AOC-1, six are bedrock wells and one (MW05-10) is an overburden well. All monitoring wells located in AOC-1, except MW05-10, are sampled in both the 1st and 3rd quarter of each year. MW05-10 is sampled in the 3rd quarter only.

As indicated in the 2022 PRR prepared for the Site, the elevated concentrations of TCE observed within AOC-1 monitoring wells are likely associated with the enhanced recharge caused by the excavation started in September 2018 and completed in December 2018. BR09-37, the closest downgradient well, reported the highest TCE concentrations in 2022. However, the 2022 TCE concentrations are lower than the TCE concentration observed in the 4th quarter of 2018. The results of future monitoring events will be used to monitor TCE concentrations over time in this area of concern.

5.2.3 AOC-2 Monitoring Wells: Contaminant Concentrations

AOC-2 is located in the northeast portion of the Site. The following five monitoring wells are located within AOC-2:

- IW2-1 (Overburden);
- IW2-3 (Overburden);
- OB09-36 (Overburden);
- OB09-38 (Overburden);
- OW2-2 (Overburden).

All of the monitoring wells located in AOC-2 are overburden wells. Two of the wells (IW2-1 and IW2-3) are sampled in both the 1st and 3rd quarter of each year. The remaining three wells (OB09-36, OB09-38 and OW2-2) are sampled in the 3rd quarter only.

The wells with the highest Pre-ISCO TCE concentrations were IW2-1 (3,900 µg/L), IW2-3 (6,000 µg/L) and OW2-2 (1,200 µg/L). The TCE concentrations observed at these wells in 2022 were two to three orders of magnitude lower than Pre-ISCO levels. The 2022 TCE concentrations observed at OB09-36 and OB09-38 are also lower than Pre-ISCO levels.

5.2.4 Landfill Monitoring Wells: Contaminant Concentrations

The landfill monitoring wells are located in the west portion of the Site. The following two monitoring wells are located within the landfill:

- BR07-31 (Bedrock);
- MW05-21 (Overburden).

BR07-31 is a bedrock well and MW05-21 is an overburden well. Both wells are sampled in sampled in the 3rd quarter.

These wells were installed in an area historically used as a landfill at the Site. The concentrations of PCE and TCE have been consistently low with slightly declining concentrations over time.

5.3 Performance and Effectiveness of the ICs/ECs

The ICs implemented at the Site are detailed in Section 3.1. These ICs continue to be effective at mitigating the potential for exposure to remaining contamination in the Site's groundwater.

The ECs implemented at the Site are detailed in Section 3.2. The ECs continue to be effective at mitigating potential for exposure to remaining contamination in the Site's soil and soil vapor.

The soil cover system and SSDS have been checked periodically by P&S personnel and GeoLogic. They will continue to be monitored and maintained in accordance with the SMP. Routine maintenance has been performed on system components on an as needed basis.

6 CONCLUSIONS and RECOMMENDATIONS

It is recommended that the current groundwater monitoring program be continued for at least another year. The next sampling event is scheduled to be completed in the first quarter of 2023.

Annual submission of a Periodic Review Report is thought to be adequate to document data trends at the Site.

7 REFERENCES

S&W Redevelopment of North America, LLC., *Remedial Investigation*, dated October 2009.

S&W Redevelopment of North America, LLC., *Final Engineering Report*, dated November 2010.

DW Stoner & Associates, LLC., *Periodic Review Report*, dated March 7, 2022.

8 CERTIFICATION

Signed Institutional and Engineering Controls Certification Forms are included in Appendix A.

We certify that to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in 312.10 of 40 CFR 312. We further certify this report to be factually presented to the best of our knowledge and belief.

Prepared by,

GeoLogic NY, P.C.

Christopher T. Gabriel
Project Manager

Forrest Earl, P.G.
President / Principal Hydrogeologist

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APPENDIX A

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C734102

Site Name P&S / Boyd Ave.

Site Address: 50 Boyd Avenue Zip Code: 13209
City/Town: Solvay
County: Onondaga
Site Acreage: 17.310

Reporting Period: January 15, 2022 to January 15, 2023

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	X
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C734102 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
001.-01-04.0	~~Patrick Davin~~ **Pass & Seymour,Inc.**	Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan Ground Water Use Restriction

The following institutional and engineering controls have been put in place on the site:
• The sub-slab depressurization system will operate continuously as an engineering control inside the existing building to preclude soil vapor intrusion, and will be inspected and maintained periodically in accordance with the Site Management Plan.
• The cover system consisting of existing concrete or asphalt and new clean granular backfill or topsoil placed in areas of the site to preclude exposure to soil contamination will be inspected, maintained, and repaired as needed, as an engineering control, in accordance with the Site Management Plan.
• Groundwater monitoring shall be performed and reported in accordance with the Site Management Plan.
• A deed restriction had been placed on the site, as an institutional control, that limits future site use to commercial use.
• Future use of groundwater at the site is prohibited, as an institutional control.
• All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Site Management Plan.
• The potential for vapor intrusion must be evaluated for any buildings developed on site, and any potential impacts that are identified must be monitored or mitigated.

001.-01-05.0	~~Patrick Davin~~ **Pass & Seymour,Inc.**	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

The following institutional and engineering controls have been put in place on the site:
• The sub-slab depressurization system will operate continuously as an engineering control inside the existing building to preclude soil vapor intrusion, and will be inspected and maintained periodically in accordance with the Site Management Plan.
• The cover system consisting of existing concrete or asphalt and new clean granular backfill or topsoil placed in areas of the site to preclude exposure to soil contamination will be inspected, maintained, and repaired as needed, as an engineering control, in accordance with the Site Management Plan.
• Groundwater monitoring shall be performed and reported in accordance with the Site Management Plan.
• A deed restriction had been placed on the site, as an institutional control, that limits future site use to commercial use.
• Future use of groundwater at the site is prohibited, as an institutional control.
• All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Site Management Plan.
• The potential for vapor intrusion must be evaluated for any buildings developed on site, and any potential impacts that are identified must be monitored or mitigated.

001.-03-04.0	~~Patrick Davin~~ **Pass & Seymour,Inc.**	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

The following institutional and engineering controls have been put in place on the site:
• The sub-slab depressurization system will operate continuously as an engineering control inside the

existing building to preclude soil vapor intrusion, and will be inspected and maintained periodically in accordance with the Site Management Plan.

• The cover system consisting of existing concrete or asphalt and new clean granular backfill or topsoil placed in areas of the site to preclude exposure to soil contamination will be inspected, maintained, and repaired as needed, as an engineering control, in accordance with the Site Management Plan.

• Groundwater monitoring shall be performed and reported in accordance with the Site Management Plan.

• A deed restriction had been placed on the site, as an institutional control, that limits future site use to commercial use.

• Future use of groundwater at the site is prohibited, as an institutional control.

• All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the Site Management Plan.

• The potential for vapor intrusion must be evaluated for any buildings developed on site, and any potential impacts that are identified must be monitored or mitigated.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
001.-01-04.0	Vapor Mitigation Cover System
001.-01-05.0	Vapor Mitigation Cover System
001.-03-04.0	Vapor Mitigation Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative | Date

IC CERTIFICATIONS
SITE NO. C734102

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Forrest C. Earl, P.G. (print name) at GeoLogic NY, P.C. PO Box 350, Homer, NY 13045 (print business address),

am certifying as Designated Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

2-14-23
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Forrest C Earl, P.G. at GeoLogic NY, P.C.
PO Box 350, Homer, NY 13045,

print name — print business address

am certifying as a Professional Engineer for the Owner

(Owner or Remedial Party)

Forrest C Earl, P.G. — 2-14-23

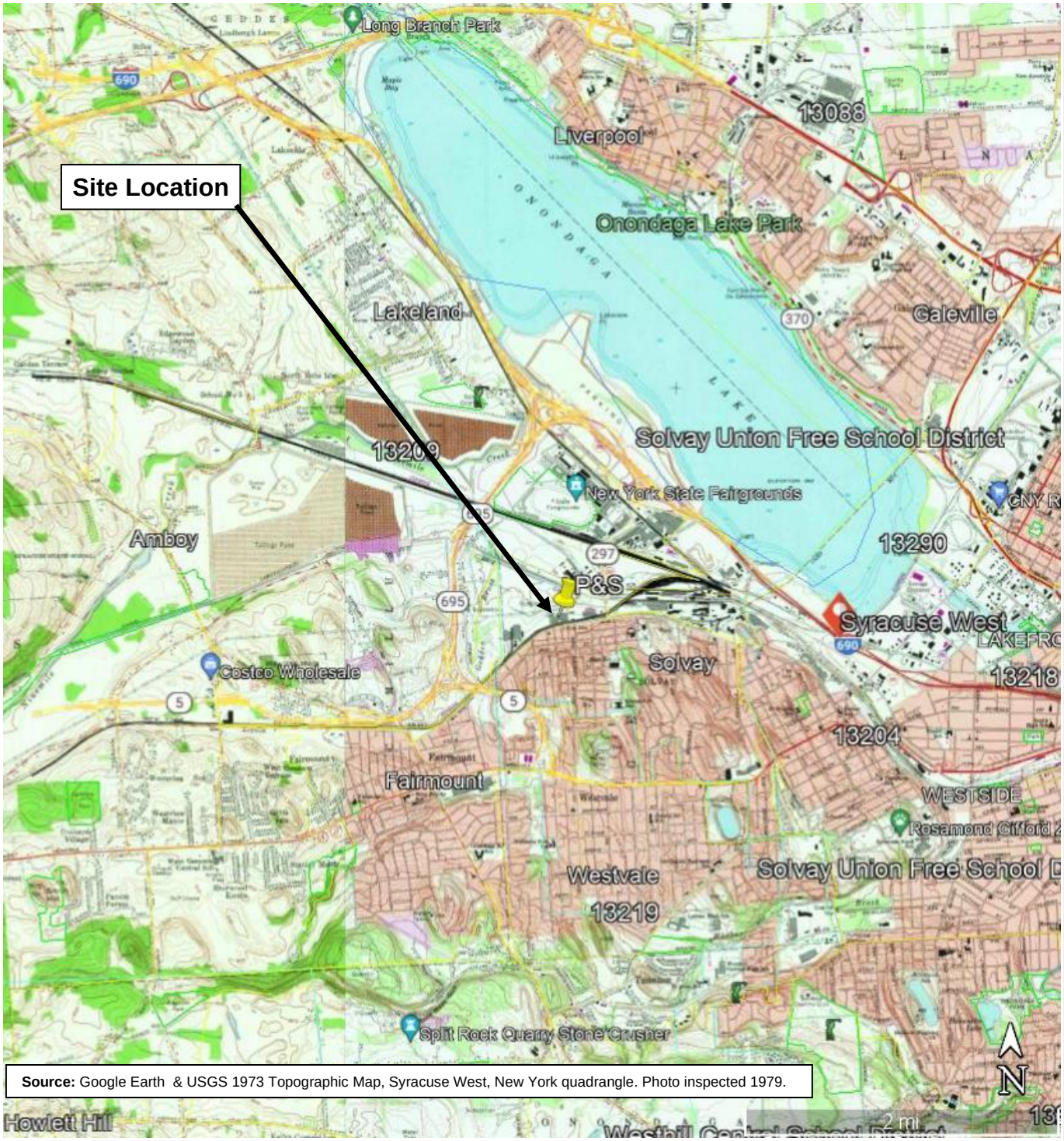
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date

APPENDIX B

DRAWINGS



Source: Google Earth & USGS 1973 Topographic Map, Syracuse West, New York quadrangle. Photo inspected 1979.

N

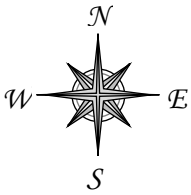
Project North

GeoLogic

GeoLogic NY, PC, Homer, New York

SITE LOCATION PLAN
PASS & SEYMOUR
50 BOYD AVE., SOLVAY, NEW YORK
SITE NO. C734102

DRAWN BY:	SCALE:	PROJECT NO:
CTG	Approx. as shown	222025
REVIEWED BY:	DATE:	DRAWING NO:
FCE	MAR. 2023	1A



GeoLogic

GeoLogic NY, PC, Homer, New York

SOLAR ARRAY LOCATION PLAN
PASS & SEYMOUR
50 BOYD AVE., SOLVAY, NEW YORK
SITE NO. C734102

DRAWN BY:	SCALE:	PROJECT NO:
CTG	Approx. as shown	222025
REVIEWED BY:	DATE:	DRAWING NO:
FCE	MAR. 2023	1B

Legend:

- Monitoring Well Location
- BR10-46 Monitoring Well Identification
- AOC 1 Monitoring Well
- AOC 2 Monitoring Well
- General Direction of GW Flow

PCE – Tetrachloroethene
TCE – Trichloroethene
DCE – cis-1,2-Dichloroethene
cVOCs – Chlorinated VOCs
ND – Not detected
NS – Not sampled in March 2022

Note:
All concentrations is µg/L ~ ppb.
All locations are approximate.

BR08-33		
	Mar-22	Sep-22
cVOCs	NS	ND

BR08-34		
	Mar-22	Sep-22
cVOCs	NS	ND

BR08-35		
	Mar-22	Sep-22
cVOCs	NS	ND

BR10-47		
	Mar-22	Sep-22
PCE	ND	ND
TCE	450	16
DCE	41	2.2

OB09-36		
	Mar-22	Sep-22
PCE	NS	ND
TCE		6.8
DCE		ND

OW1-4		
	Mar-22	Sep-22
PCE	ND	ND
TCE	400	700
DCE	17	36

BR10-46		
	Mar-22	Sep-22
PCE	1.0	0.37 J
TCE	560	150
DCE	86	18

OB09-38		
	Mar-22	Sep-22
PCE	NS	ND
TCE		22
DCE		5.7

BR09-39		
	Mar-22	Sep-22
PCE	2.6 J	3.5
TCE	160	200
DCE	9	12

MW05-10		
	Mar-22	Sep-22
PCE	NS	0.67 J
TCE		56
DCE		1.7

OW1-1		
	Mar-22	Sep-22
PCE	3.2	3.0 J
TCE	330	240
DCE	11	8.3

OW2-2		
	Mar-22	Sep-22
PCE	NS	ND
TCE		9.7
DCE		1.8

IW2-1		
	Mar-22	Sep-22
PCE	ND	ND
TCE	15	280
DCE	2.1	57

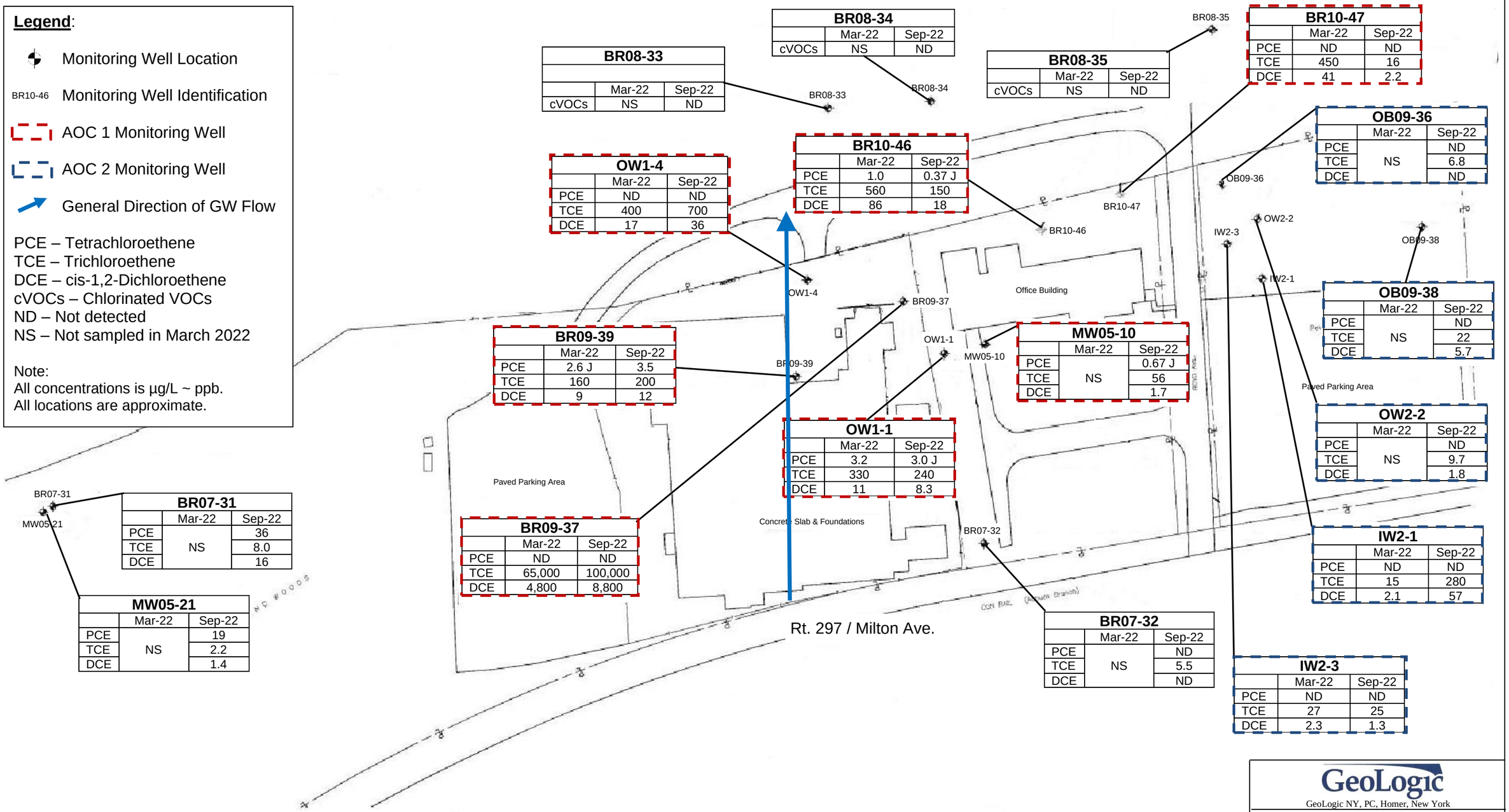
BR09-37		
	Mar-22	Sep-22
PCE	ND	ND
TCE	65,000	100,000
DCE	4,800	8,800

BR07-31		
	Mar-22	Sep-22
PCE	NS	36
TCE		8.0
DCE		16

MW05-21		
	Mar-22	Sep-22
PCE	NS	19
TCE		2.2
DCE		1.4

BR07-32		
	Mar-22	Sep-22
PCE	NS	ND
TCE		5.5
DCE		ND

IW2-3		
	Mar-22	Sep-22
PCE	ND	ND
TCE	27	25
DCE	2.3	1.3



Source: Figure 1 – Analytical Results for Chlorinated VOCs in Groundwater from "Quarterly Monitoring for Brownfield Site #C734102 by DW Stoner & Associates, LLC., dated December 29, 2021

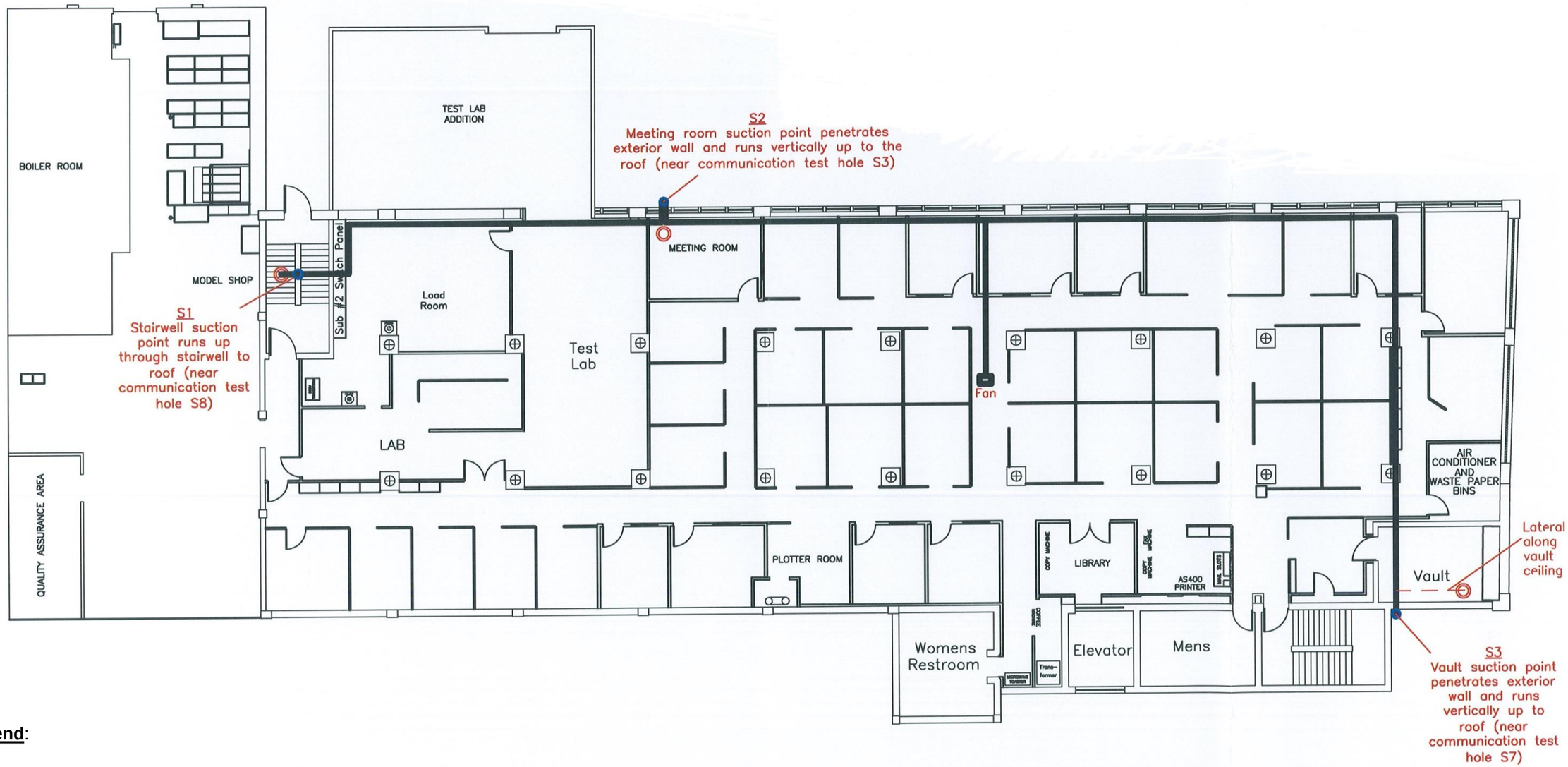
SURVEY NOTE
BASED ON A PLAN PREPARED BY S&W REDEVELOPMENT OF NORTH AMERICA DECEMBER 2011
THE BOUNDARY AND TOPOGRAPHIC MAPPING OF THIS SURVEY WAS PERFORMED BY DAVID W. HAVENS, L.S. 47-19, LAST REVISED BY HAVENS ON JUNE 21, 1994.
DATUM CORRECTIONS AND MONITORING WELL LOCATIONS BY BRYANT ASSOCIATES, P.C. ARE AS SURVEYED ON NOVEMBER 8, 2005, and January 7, 2010.

GeoLogic
GeoLogic NY, PC, Homer, New York

MONITORING WELL LOCATION PLAN & 2022 CVOC ANALYTICAL RESULTS SITE NO. C734102-PASS & SEYMOUR 50 BOYD AVE., SOLVAY, NEW YORK

DRAWN BY:	SCALE:	PROJECT NO:
CTG	Approx. as shown	222025
REVIEWED BY:	DATE:	DRAWING NO:
FCE	MAR. 2023	2

FILE:P:\PROJECTS\2022\222025 - Pass & Seymour\REPORT\2023 PRR\Drawing No. 2 MW Location Plan & cVOC Results for PRR Revision No. 1.docx



Legend:

Vertical piping riser to the roof

Horizontal Piping Network (on roof)

SSDS Suction Riser location (vertical pipe)

SCALE in FEET

8 0 16 32

Note: Drawing based upon SMP Figure 17 – SSDS Layout, dated Sept. 2009, by S&W Redevelopment of North America, LLC.

GeoLogic

GeoLogic NY, PC, Homer, New York

SSDS LAYOUT PLAN
PASS & SEYMOUR
50 BOYD AVE., SOLVAY, NY
SITE NO. C734102

DRAWN BY:	SCALE:	PROJECT NO:
CG	Approx. as shown	222025
REVIEWED BY:	DATE:	DRAWING NO:
FCE	FEB. 2023	3

APPENDIX C

TABLES

Table No. 1
Groundwater Elevations

Pass and Seymour - Boyd Avenue Site
Site No. C734102

MONITORING WELL I.D.	Well Diameter (IN)	DATE	TOC REF. ELEVATION	TOC DEPTH TO WATER (FT)	GW ELEVATION	DEPTH OF WELL (FT)	1 WELL VOLUME (GAL.)	VOLUME PURGED (GAL.)
BR07-31	2	3/25/2022	410.18	NC				
		9/29/2022	410.18	7.81	402.37	20.0	2.0	6.0
BR07-32	2	3/25/2022	426.82	NC				
		9/28/2022	426.82	16.44	410.38	20.4	0.6	1.7
BR08-33	2	3/25/2022	408.11	NC				
		9/29/2022	408.11	8.97	399.14	42.6	5.4	Dry at 7.2
BR08-34	2	3/25/2022	408.96	NC				
		9/29/2022	408.96	8.49	400.47	43.0	5.5	Dry at 5.5
BR08-35	2	3/25/2022	408.35	NC				
		9/29/2022	408.35	9.78	398.57	32.5	3.6	Dry at 3.4
BR09-37	2	3/25/2022	417.85	16.72	401.13	25.0	1.3	4.5
		9/29/2022	417.85	17.78	400.07	24.5	1.1	3.3
BR09-39	2	3/25/2022	424.06	18.78	405.28	30.0	1.8	6.0
		9/29/2022	424.06	20.70	403.36	29.7	1.4	9.0
BR10-46	2	3/25/2022	417.10	11.53	405.57	25.5	2.2	7.2
		9/29/2022	417.10	12.90	404.20	27.8	2.4	7.2
BR10-47	2	3/25/2022	416.67	12.55	404.12	25.0	2.0	6.5
		9/29/2022	416.67	12.92	403.75	19.5	1.1	7.2
IW2-1	4	3/25/2022	418.25	16.92	401.33	35.0	11.9	36
		9/29/2022	418.25	18.17	400.08	34.5	10.8	32
IW2-3	4	3/25/2022	416.62	14.92	401.70	35.0	13.3	40
		9/28/2022	416.62	16.42	400.20	34.8	12.1	36
MW05-10	2	3/25/2022	403.89	NC				
		9/28/2022	403.89	15.46	388.43	19.4	0.6	2.0
MW05-21	2	3/25/2022	411.46	NC				
		9/29/2022	411.46	4.26	407.20	12.1	1.3	4.0

Table No. 1
Groundwater Elevations

Pass and Seymour - Boyd Avenue Site
Site No. C734102

MONITORING WELL I.D.	Well Diameter (IN)	DATE	TOC REF. ELEVATION	TOC DEPTH TO WATER (FT)	GW ELEVATION	DEPTH OF WELL (FT)	1 WELL VOLUME (GAL.)	VOLUME PURGED (GAL.)
OB09-36	2	3/25/2022	414.84	NC				
		9/29/2022	414.84	14.64	400.20	34.2	3.1	9.4
OB09-38	2	3/25/2022	416.68	NC				
		9/29/2022	416.68	16.87	399.81	31.7	2.4	7.2
OW1-1	2	3/25/2022	421.40	14.44	406.96	28.0	2.2	7.0
		9/28/2022	421.40	14.91	406.49	27.6	2.0	6.0
OW1-4	2	3/25/2022	419.90	16.17	403.73	28.0	1.9	6.0
		9/29/2022	419.90	18.46	401.44	28.3	1.6	4.7
OW2-2	2	3/25/2022	416.59	NC				
		9/29/2022	416.59	16.46	400.13	34.7	2.9	8.5

Notes:

NC = Not Collected. Well not included in 1st quarter sampling event.

TOC = Top of Casing GW = Groundwater NA = Not Applicable - Well Dry

All elevations are feet above mean sea level.

Water levels measured with an electronic water level indicator to the nearest 0.01' & referenced to the top of the PVC well casing.

Wells purged utilizing dedicated bailers or submersible pump with new or dedicated polyethylene tubing.

Some wells purged dry, then allowed to recover and sampled within 24-hours.

Wells sampled utilizing dedicated bailers.

Table No. 2
Field Parameters

Pass and Seymour - Boyd Avenue Site
Site No. C734102

Well	Date	Temp. (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
BR07-31	3/25/2022	NC					
	9/29/2022	15.8	6.86	2.642	4.55	136.9	0.77
BR07-32	3/25/2022	NC					
	9/28/2022	14.6	7.30	0.983	2.66	15.9	4.83
BR08-33	3/25/2022	NC					
	9/29/2022	12.1	7.63	4.866	82.15	137.7	7.29
BR08-34	3/25/2022	NC					
	9/29/2022	12.0	7.84	3.409	65.31	72.7	4.85
BR08-35	3/25/2022	NC					
	9/29/2022	12.1	7.56	2.913	76.31	60.4	5.07
BR09-37	3/25/2022	11.53	7.08	2.33	10.1	80.6	9.64
	9/29/2022	13.5	7.01	1.992	0.87	94.0	1.19
BR09-39	3/25/2022	12.81	7.04	1.76	1.8	147	10.5
	9/29/2022	14.8	7.10	1.384	0.18	227.5	4.39
BR10-46	3/25/2022	11.35	7.39	1.13	14.8	85	14.68
	9/29/2022	16.3	7.00	2.514	0.92	18.9	2.10
BR10-47	3/25/2022	10.15	7.19	2.93	76.6	140	29.74
	9/29/2022	13.1	7.03	2.221	40.41	133.0	1.41
IW2-1	3/25/2022	12.79	7.18	2.82	5.2	50	12.09
	9/29/2022	13.2	7.00	2.563	6.15	-26.9	0.64
IW2-3	3/25/2022	12.70	7.2	1.96	8.7	184	21.75
	9/28/2022	12.9	7.00	3.333	-0.25 (?)	118.2	0.66

Table No. 2
Field Parameters

Pass and Seymour - Boyd Avenue Site
Site No. C734102

Well	Date	Temp. (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
MW05-10	3/25/2022	NC					
	9/28/2022	15.2	7.13	2.975	9.54	97.3	2.58
MW05-21	3/25/2022	NC					
	9/29/2022	16.4	6.89	2.014	32.65	147.5	2.52
OB09-36	3/25/2022	NC					
	9/29/2022	12.6	7.21	3.640	4.71	143.7	0.95
OB09-38	3/25/2022	NC					
	9/29/2022	13.2	6.97	2.778	4.42	98.0	1.08
OW1-1	3/25/2022	12.65	7.39	1.13	14.8	85	14.68
	9/28/2022	15.2	7.11	2.997	0.96	177.8	4.73
OW1-4	3/25/2022	12.18	6.98	1.02	16.8	84.6	30.07
	9/29/2022	16.1	6.96	1.223	0.49	10.6	2.84
OW2-2	3/25/2022	NC	NC	NC	NC	NC	NC
	9/29/2022	12.8	7.12	2.599	3.43	83.8	0.71

Notes:
NC = Not Collected. Well not included in 1st quater sampling event.
3-25-2022 field parameters collected utilizing Horiba U-52 rented from & calibrated by Pine Environmental.
9-29-2022 field parameters collected utilizing YSI Pro DDS rented from & calibrated by Pine Environmental.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR07-31			
		Pre-ISCO	3/25/2022	9/29/2022	
1,1,1-Trichloroethane	5	NS	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloroethane	1	NS	NS	<1.0	ND
1,1-Dichloroethane	5	NS	NS	<1.0	ND
1,1-Dichloroethene	5	NS	NS	<1.0	ND
1,2,4-Trichlorobenzene	5	NS	NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	NS	<1.0	ND
1,2-Dichlorobenzene	3	NS	NS	<1.0	ND
1,2-Dichloroethane	0.6	NS	NS	<1.0	ND
1,2-Dichloropropane	1	NS	NS	<1.0	ND
1,3-Dichlorobenzene	3	NS	NS	<1.0	ND
1,4-Dichlorobenzene	4	NS	NS	<1.0	ND
2-Butanone (MEK)	50	NS	NS	<10	ND
2-Hexanone	50	NS	NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	NS	NS	<5.0	ND
Acetone	50	NS	NS	7.2	J
Benzene	1	NS	NS	<1.0	ND
Bromodichloromethane	50	NS	NS	<1.0	ND
Bromoform	50	NS	NS	<1.0	ND
Bromomethane	5	NS	NS	<1.0	ND
Carbon disulfide	60	NS	NS	<1.0	ND
Carbon tetrachloride	5	NS	NS	<1.0	ND
Chlorobenzene	5	NS	NS	<1.0	ND
Chloroethane	5	NS	NS	<1.0	ND
Chloroform	7	NS	NS	<1.0	ND
Chloromethane	5	NS	NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	NS	**16**	
cis-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Cyclohexane	None	NS	NS	<1.0	ND
Dibromochloromethane	50	NS	NS	<1.0	ND
Dichlorodifluoromethane	5	NS	NS	<1.0	ND
Ethylbenzene	5	NS	NS	<1.0	ND
Isopropylbenzene (Cumene)	5	NS	NS	<1.0	ND
Methyl acetate	None	NS	NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	NS	NS	<1.0	ND
Methylcyclohexane	None	NS	NS	<1.0	ND
Methylene Chloride	5	NS	NS	<1.0	ND
Styrene	5	NS	NS	<1.0	ND
Tetrachloroethene (PCE)	5	NS	NS	**36**	
Toluene	5	NS	NS	<1.0	ND
trans-1,2-Dichloroethene	5	NS	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Trichloroethene (TCE)	5	NS	NS	**8.0**	
Trichlorofluoromethane	5	NS	NS	<1.0	ND
Vinyl Chloride (VC)	2	NS	NS	<1.0	ND
Xylenes (Total)	5	NS	NS	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR07-32			
		Pre-ISCO	3/25/2022	9/29/2022	
1,1,1-Trichloroethane	5	NS	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloroethane	1	NS	NS	<1.0	ND
1,1-Dichloroethane	5	NS	NS	<1.0	ND
1,1-Dichloroethene	5	NS	NS	<1.0	ND
1,2,4-Trichlorobenzene	5	NS	NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	NS	<1.0	ND
1,2-Dichlorobenzene	3	NS	NS	<1.0	ND
1,2-Dichloroethane	0.6	NS	NS	<1.0	ND
1,2-Dichloropropane	1	NS	NS	<1.0	ND
1,3-Dichlorobenzene	3	NS	NS	<1.0	ND
1,4-Dichlorobenzene	4	NS	NS	<1.0	ND
2-Butanone (MEK)	50	NS	NS	<10	ND
2-Hexanone	50	NS	NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	NS	NS	<5.0	ND
Acetone	50	NS	NS	<10	ND
Benzene	1	NS	NS	<1.0	ND
Bromodichloromethane	50	NS	NS	<1.0	ND
Bromoform	50	NS	NS	<1.0	ND
Bromomethane	5	NS	NS	<1.0	ND
Carbon disulfide	60	NS	NS	<1.0	ND
Carbon tetrachloride	5	NS	NS	<1.0	ND
Chlorobenzene	5	NS	NS	<1.0	ND
Chloroethane	5	NS	NS	<1.0	ND
Chloroform	7	NS	NS	<1.0	ND
Chloromethane	5	NS	NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	NS	<1.0	ND
cis-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Cyclohexane	None	NS	NS	<1.0	ND
Dibromochloromethane	50	NS	NS	<1.0	ND
Dichlorodifluoromethane	5	NS	NS	<1.0	ND
Ethylbenzene	5	NS	NS	<1.0	ND
Isopropylbenzene (Cumene)	5	NS	NS	<1.0	ND
Methyl acetate	None	NS	NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	NS	NS	<1.0	ND
Methylcyclohexane	None	NS	NS	<1.0	ND
Methylene Chloride	5	NS	NS	<1.0	ND
Styrene	5	NS	NS	<1.0	ND
Tetrachloroethene (PCE)	5	NS	NS	<1.0	ND
Toluene	5	NS	NS	<1.0	ND
trans-1,2-Dichloroethene	5	NS	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Trichloroethene (TCE)	5	NS	NS	**5.5**	
Trichlorofluoromethane	5	NS	NS	<1.0	ND
Vinyl Chloride (VC)	2	NS	NS	<1.0	ND
Xylenes (Total)	5	NS	NS	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR08-33			
		Pre-ISCO	3/26/2022	9/30/2022	
1,1,1-Trichloroethane	5	NS	NS	<2.0	ND
1,1,2,2-Tetrachloroethane	5	NS	NS	<2.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	NS	<2.0	ND
1,1,2-Trichloroethane	1	NS	NS	<2.0	ND
1,1-Dichloroethane	5	NS	NS	<2.0	ND
1,1-Dichloroethene	5	NS	NS	<2.0	ND
1,2,4-Trichlorobenzene	5	NS	NS	<2.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	NS	<2.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	NS	<2.0	ND
1,2-Dichlorobenzene	3	NS	NS	<2.0	ND
1,2-Dichloroethane	0.6	NS	NS	<2.0	ND
1,2-Dichloropropane	1	NS	NS	<2.0	ND
1,3-Dichlorobenzene	3	NS	NS	<2.0	ND
1,4-Dichlorobenzene	4	NS	NS	<2.0	ND
2-Butanone (MEK)	50	NS	NS	<20	ND
2-Hexanone	50	NS	NS	<10	ND
4-Methyl-2-pentanone (MIBK)	5	NS	NS	<10	ND
Acetone	50	NS	NS	<20	ND
Benzene	1	NS	NS	<2.0	ND
Bromodichloromethane	50	NS	NS	<2.0	ND
Bromoform	50	NS	NS	<2.0	ND
Bromomethane	5	NS	NS	<2.0	ND
Carbon disulfide	60	NS	NS	<2.0	ND
Carbon tetrachloride	5	NS	NS	<2.0	ND
Chlorobenzene	5	NS	NS	<2.0	ND
Chloroethane	5	NS	NS	<2.0	ND
Chloroform	7	NS	NS	<2.0	ND
Chloromethane	5	NS	NS	<2.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	NS	<2.0	ND
cis-1,3-Dichloropropene	0.4	NS	NS	<2.0	ND
Cyclohexane	None	NS	NS	<2.0	ND
Dibromochloromethane	50	NS	NS	<2.0	ND
Dichlorodifluoromethane	5	NS	NS	<2.0	ND
Ethylbenzene	5	NS	NS	<2.0	ND
Isopropylbenzene (Cumene)	5	NS	NS	<2.0	ND
Methyl acetate	None	NS	NS	<5.0	ND
Methyl tert-butyl ether (MTBE)	10	NS	NS	<2.0	ND
Methylcyclohexane	None	NS	NS	<2.0	ND
Methylene Chloride	5	NS	NS	<2.0	ND
Styrene	5	NS	NS	<2.0	ND
Tetrachloroethene (PCE)	5	NS	NS	<2.0	ND
Toluene	5	NS	NS	<2.0	ND
trans-1,2-Dichloroethene	5	NS	NS	<2.0	ND
trans-1,3-Dichloropropene	0.4	NS	NS	<2.0	ND
Trichloroethene (TCE)	5	NS	NS	<2.0	ND
Trichlorofluoromethane	5	NS	NS	<2.0	ND
Vinyl Chloride (VC)	2	NS	NS	<2.0	ND
Xylenes (Total)	5	NS	NS	<4.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR08-34			
		Pre-ISCO	3/26/2022	9/30/2022	
1,1,1-Trichloroethane	5	NS	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloroethane	1	NS	NS	<1.0	ND
1,1-Dichloroethane	5	NS	NS	<1.0	ND
1,1-Dichloroethene	5	NS	NS	<1.0	ND
1,2,4-Trichlorobenzene	5	NS	NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	NS	<1.0	ND
1,2-Dichlorobenzene	3	NS	NS	<1.0	ND
1,2-Dichloroethane	0.6	NS	NS	<1.0	ND
1,2-Dichloropropane	1	NS	NS	<1.0	ND
1,3-Dichlorobenzene	3	NS	NS	<1.0	ND
1,4-Dichlorobenzene	4	NS	NS	<1.0	ND
2-Butanone (MEK)	50	NS	NS	<10	ND
2-Hexanone	50	NS	NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	NS	NS	<5.0	ND
Acetone	50	NS	NS	3.3	J
Benzene	1	NS	NS	<1.0	ND
Bromodichloromethane	50	NS	NS	<1.0	ND
Bromoform	50	NS	NS	<1.0	ND
Bromomethane	5	NS	NS	<1.0	ND
Carbon disulfide	60	NS	NS	<1.0	ND
Carbon tetrachloride	5	NS	NS	<1.0	ND
Chlorobenzene	5	NS	NS	<1.0	ND
Chloroethane	5	NS	NS	<1.0	ND
Chloroform	7	NS	NS	<1.0	ND
Chloromethane	5	NS	NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	NS	<1.0	ND
cis-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Cyclohexane	None	NS	NS	<1.0	ND
Dibromochloromethane	50	NS	NS	<1.0	ND
Dichlorodifluoromethane	5	NS	NS	<1.0	ND
Ethylbenzene	5	NS	NS	<1.0	ND
Isopropylbenzene (Cumene)	5	NS	NS	<1.0	ND
Methyl acetate	None	NS	NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	NS	NS	<1.0	ND
Methylcyclohexane	None	NS	NS	<1.0	ND
Methylene Chloride	5	NS	NS	<1.0	ND
Styrene	5	NS	NS	<1.0	ND
Tetrachloroethene (PCE)	5	NS	NS	<1.0	ND
Toluene	5	NS	NS	0.67	J
trans-1,2-Dichloroethene	5	NS	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Trichloroethene (TCE)	5	NS	NS	<1.0	ND
Trichlorofluoromethane	5	NS	NS	<1.0	ND
Vinyl Chloride (VC)	2	NS	NS	<1.0	ND
Xylenes (Total)	5	NS	NS	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR08-35			
		Pre-ISCO	3/26/2022	9/30/2022	
1,1,1-Trichloroethane	5	NS	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloroethane	1	NS	NS	<1.0	ND
1,1-Dichloroethane	5	NS	NS	<1.0	ND
1,1-Dichloroethene	5	NS	NS	<1.0	ND
1,2,4-Trichlorobenzene	5	NS	NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	NS	<1.0	ND
1,2-Dichlorobenzene	3	NS	NS	<1.0	ND
1,2-Dichloroethane	0.6	NS	NS	<1.0	ND
1,2-Dichloropropane	1	NS	NS	<1.0	ND
1,3-Dichlorobenzene	3	NS	NS	<1.0	ND
1,4-Dichlorobenzene	4	NS	NS	<1.0	ND
2-Butanone (MEK)	50	NS	NS	<10	ND
2-Hexanone	50	NS	NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	NS	NS	<5.0	ND
Acetone	50	NS	NS	<10.0	ND
Benzene	1	NS	NS	<1.0	ND
Bromodichloromethane	50	NS	NS	<1.0	ND
Bromoform	50	NS	NS	<1.0	ND
Bromomethane	5	NS	NS	<1.0	ND
Carbon disulfide	60	NS	NS	<1.0	ND
Carbon tetrachloride	5	NS	NS	<1.0	ND
Chlorobenzene	5	NS	NS	<1.0	ND
Chloroethane	5	NS	NS	<1.0	ND
Chloroform	7	NS	NS	<1.0	ND
Chloromethane	5	NS	NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	NS	<1.0	ND
cis-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Cyclohexane	None	NS	NS	<1.0	ND
Dibromochloromethane	50	NS	NS	<1.0	ND
Dichlorodifluoromethane	5	NS	NS	<1.0	ND
Ethylbenzene	5	NS	NS	<1.0	ND
Isopropylbenzene (Cumene)	5	NS	NS	<1.0	ND
Methyl acetate	None	NS	NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	NS	NS	<1.0	ND
Methylcyclohexane	None	NS	NS	<1.0	ND
Methylene Chloride	5	NS	NS	<1.0	ND
Styrene	5	NS	NS	<1.0	ND
Tetrachloroethene (PCE)	5	NS	NS	<1.0	ND
Toluene	5	NS	NS	<1.0	ND
trans-1,2-Dichloroethene	5	NS	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Trichloroethene (TCE)	5	NS	NS	<1.0	ND
Trichlorofluoromethane	5	NS	NS	<1.0	ND
Vinyl Chloride (VC)	2	NS	NS	<1.0	ND
Xylenes (Total)	5	NS	NS	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR09-37				
		Pre-ISCO	3/25/2022		9/30/2022	
1,1,1-Trichloroethane	5	ND	<800	ND	<200	ND
1,1,2,2-Tetrachloroethane	5	ND	<800	ND	<200	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5		<800	ND	<200	ND
1,1,2-Trichloroethane	1	ND	<800	ND	<200	ND
1,1-Dichloroethane	5	ND	<800	ND	<200	ND
1,1-Dichloroethene	5	ND	<800	ND	**120**	**J**
1,2,4-Trichlorobenzene	5		<800	ND	<200	ND
1,2-Dibromo-3-chloropropane	0.04		<800	ND	<200	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		<800	ND	<200	ND
1,2-Dichlorobenzene	3		<800	ND	<200	ND
1,2-Dichloroethane	0.6	ND	<800	ND	<200	ND
1,2-Dichloropropane	1	ND	<800	ND	<200	ND
1,3-Dichlorobenzene	3		<800	ND	<200	ND
1,4-Dichlorobenzene	4		<800	ND	<200	ND
2-Butanone (MEK)	50	ND	<8,000	ND	<2,000	ND
2-Hexanone	50		<4,000	ND	<1,000	ND
4-Methyl-2-pentanone (MIBK)	5	ND	<4,000	ND	<1,000	ND
Acetone	50	ND	<8,000	ND	<2,000	ND
Benzene	1	ND	<800	ND	<200	ND
Bromodichloromethane	50	ND	<800	ND	<200	ND
Bromoform	50	ND	<800	ND	<200	ND
Bromomethane	5	ND	<800	ND	<200	ND
Carbon disulfide	60		<800	ND	<200	ND
Carbon tetrachloride	5	ND	<800	ND	<200	ND
Chlorobenzene	5	ND	<800	ND	<200	ND
Chloroethane	5	ND	<800	ND	<200	ND
Chloroform	7	ND	<800	ND	<200	ND
Chloromethane	5	ND	<800	ND	<200	ND
cis-1,2-Dichloroethene (DCE)	5	ND	**4,800**		**8,800**	
cis-1,3-Dichloropropene	0.4	ND	<800	ND	<200	ND
Cyclohexane	None		<800	ND	<200	ND
Dibromochloromethane	50		<800	ND	<200	ND
Dichlorodifluoromethane	5		<800	ND	<200	ND
Ethylbenzene	5	ND	<800	ND	<200	ND
Isopropylbenzene (Cumene)	5		<800	ND	<200	ND
Methyl acetate	None		<2,000	ND	<500	ND
Methyl tert-butyl ether (MTBE)	10		<800	ND	<200	ND
Methylcyclohexane	None		<800	ND	<200	ND
Methylene Chloride	5	ND	<800	ND	<200	ND
Styrene	5	ND	<800	ND	<200	ND
Tetrachloroethene (PCE)	5	ND	<800	ND	<200	ND
Toluene	5	ND	<800	ND	<200	ND
trans-1,2-Dichloroethene	5	ND	<800	ND	<200	ND
trans-1,3-Dichloropropene	0.4	ND	<800	ND	<200	ND
Trichloroethene (TCE)	5	**7,800**	**65,000**		**100,000**	
Trichlorofluoromethane	5		<800	ND	<200	ND
Vinyl Chloride (VC)	2	ND	<800	ND	<200	ND
Xylenes (Total)	5	ND	<1,600	ND	<400	ND

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J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR09-39				
		Pre-ISCO	3/25/2022		9/30/2022	
1,1,1-Trichloroethane	5	ND	<5.0	ND	<1.0	ND
1,1,2,2-Tetrachloroethane	5		<5.0	ND	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5		<5.0	ND	<1.0	ND
1,1,2-Trichloroethane	1	ND	<5.0	ND	<1.0	ND
1,1-Dichloroethane	5	ND	<5.0	ND	<1.0	ND
1,1-Dichloroethene	5	ND	<5.0	ND	<1.0	ND
1,2,4-Trichlorobenzene	5		<5.0	ND	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04		<5.0	ND	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		<5.0	ND	<1.0	ND
1,2-Dichlorobenzene	3		<5.0	ND	<1.0	ND
1,2-Dichloroethane	0.6	ND	<5.0	ND	<1.0	ND
1,2-Dichloropropane	1	ND	<5.0	ND	<1.0	ND
1,3-Dichlorobenzene	3		<5.0	ND	<1.0	ND
1,4-Dichlorobenzene	4		<5.0	ND	<1.0	ND
2-Butanone (MEK)	50	ND	<50	ND	<10	ND
2-Hexanone	50		<25	ND	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	ND	<25	ND	<5.0	ND
Acetone	50	ND	<50	ND	<10	ND
Benzene	1	ND	<5.0	ND	<1.0	ND
Bromodichloromethane	50	ND	<5.0	ND	<1.0	ND
Bromoform	50	ND	<5.0	ND	<1.0	ND
Bromomethane	5	ND	<5.0	ND	<1.0	ND
Carbon disulfide	60		<5.0	ND	<1.0	ND
Carbon tetrachloride	5	ND	<5.0	ND	<1.0	ND
Chlorobenzene	5	ND	<5.0	ND	<1.0	ND
Chloroethane	5	ND	<5.0	ND	<1.0	ND
Chloroform	7	ND	<5.0	ND	<1.0	ND
Chloromethane	5	ND	<5.0	ND	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	**12**	**9.0**		**12**	
cis-1,3-Dichloropropene	0.4	ND	<5.0	ND	<1.0	ND
Cyclohexane	None		<5.0	ND	<1.0	ND
Dibromochloromethane	50		<5.0	ND	<1.0	ND
Dichlorodifluoromethane	5		<5.0	ND	<1.0	ND
Ethylbenzene	5	ND	<5.0	ND	<1.0	ND
Isopropylbenzene (Cumene)	5		<5.0	ND	<1.0	ND
Methyl acetate	None		<13	ND	<2.5	ND
Methyl tert-butyl ether (MTBE)	10		<5.0	ND	<1.0	ND
Methylcyclohexane	None		<5.0	ND	<1.0	ND
Methylene Chloride	5	ND	<5.0	ND	<1.0	ND
Styrene	5	ND	<5.0	ND	<1.0	ND
Tetrachloroethene (PCE)	5	ND	2.6	J	3.5	
Toluene	5	ND	<5.0	ND	<1.0	ND
trans-1,2-Dichloroethene	5	ND	<5.0	ND	<1.0	ND
trans-1,3-Dichloropropene	0.4	ND	<5.0	ND	<1.0	ND
Trichloroethene (TCE)	5	**290**	**160**		**200**	
Trichlorofluoromethane	5		<5.0	ND	<1.0	ND
Vinyl Chloride (VC)	2	ND	<5.0	ND	<1.0	ND
Xylenes (Total)	5	ND	<10	U	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

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J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR10-46				
		Pre-ISCO	3/25/2022		9/30/2022	
1,1,1-Trichloroethane	5	NS	<1.0	ND	<1.0	ND
1,1,2,2-Tetrachloroethane	5	NS	<1.0	ND	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	<1.0	ND	<1.0	ND
1,1,2-Trichloroethane	1	NS	<1.0	ND	<1.0	ND
1,1-Dichloroethane	5	NS	<1.0	ND	<1.0	ND
1,1-Dichloroethene	5	NS	0.91	J	<1.0	ND
1,2,4-Trichlorobenzene	5	NS	<1.0	ND	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	<1.0	ND	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	<1.0	ND	<1.0	ND
1,2-Dichlorobenzene	3	NS	<1.0	ND	<1.0	ND
1,2-Dichloroethane	0.6	NS	<1.0	ND	<1.0	ND
1,2-Dichloropropane	1	NS	<1.0	ND	<1.0	ND
1,3-Dichlorobenzene	3	NS	<1.0	ND	<1.0	ND
1,4-Dichlorobenzene	4	NS	<1.0	ND	<1.0	ND
2-Butanone (MEK)	50	NS	<10	ND	<10	ND
2-Hexanone	50	NS	<5.0	ND	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	NS	<5.0	ND	<5.0	ND
Acetone	50	NS	<10	ND	4.6	J
Benzene	1	NS	<1.0	ND	<1.0	ND
Bromodichloromethane	50	NS	<1.0	ND	<1.0	ND
Bromoform	50	NS	<1.0	ND	<1.0	ND
Bromomethane	5	NS	<1.0	ND	<1.0	ND
Carbon disulfide	60	NS	<1.0	ND	<1.0	ND
Carbon tetrachloride	5	NS	<1.0	ND	<1.0	ND
Chlorobenzene	5	NS	<1.0	ND	<1.0	ND
Chloroethane	5	NS	<1.0	ND	<1.0	ND
Chloroform	7	NS	<1.0	ND	<1.0	ND
Chloromethane	5	NS	<1.0	ND	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	**86**		**18**	
cis-1,3-Dichloropropene	0.4	NS	<1.0	ND	<1.0	ND
Cyclohexane	None	NS	<1.0	ND	<1.0	ND
Dibromochloromethane	50	NS	<1.0	ND	<1.0	ND
Dichlorodifluoromethane	5	NS	<1.0	ND	<1.0	ND
Ethylbenzene	5	NS	<1.0	ND	<1.0	ND
Isopropylbenzene (Cumene)	5	NS	<1.0	ND	<1.0	ND
Methyl acetate	None	NS	<2.5	ND	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	NS	<1.0	ND	<1.0	ND
Methylcyclohexane	None	NS	<1.0	ND	<1.0	ND
Methylene Chloride	5	NS	<1.0	ND	<1.0	ND
Styrene	5	NS	<1.0	ND	<1.0	ND
Tetrachloroethene (PCE)	5	NS	1.0		0.37	J
Toluene	5	NS	<1.0	ND	<1.0	ND
trans-1,2-Dichloroethene	5	NS	<1.0	ND	<1.0	ND
trans-1,3-Dichloropropene	0.4	NS	<1.0	ND	<1.0	ND
Trichloroethene (TCE)	5	NS	**560**	F1	**150**	
Trichlorofluoromethane	5	NS	<1.0	ND	<1.0	ND
Vinyl Chloride (VC)	2	NS	<1.0	ND	<1.0	ND
Xylenes (Total)	5	NS	<2.0	ND	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	BR10-47				
		Pre-ISCO	3/25/2022		9/30/2022	
1,1,1-Trichloroethane	5	NS	<8.0	ND	<1.0	ND
1,1,2,2-Tetrachloroethane	5	NS	<8.0	ND	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	<8.0	ND	<1.0	ND
1,1,2-Trichloroethane	1	NS	<8.0	ND	<1.0	ND
1,1-Dichloroethane	5	NS	<8.0	ND	<1.0	ND
1,1-Dichloroethene	5	NS	<8.0	ND	<1.0	ND
1,2,4-Trichlorobenzene	5	NS	<8.0	ND	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	<8.0	ND	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	<8.0	ND	<1.0	ND
1,2-Dichlorobenzene	3	NS	<8.0	ND	<1.0	ND
1,2-Dichloroethane	0.6	NS	<8.0	ND	<1.0	ND
1,2-Dichloropropane	1	NS	<8.0	ND	<1.0	ND
1,3-Dichlorobenzene	3	NS	<8.0	ND	<1.0	ND
1,4-Dichlorobenzene	4	NS	<8.0	ND	<1.0	ND
2-Butanone (MEK)	50	NS	<80	ND	<10	ND
2-Hexanone	50	NS	<40	ND	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	NS	<40	ND	<5.0	ND
Acetone	50	NS	<80	ND	3.4	J
Benzene	1	NS	<8.0	ND	<1.0	ND
Bromodichloromethane	50	NS	<8.0	ND	<1.0	ND
Bromoform	50	NS	<8.0	ND	<1.0	ND
Bromomethane	5	NS	<8.0	ND	<1.0	ND
Carbon disulfide	60	NS	<8.0	ND	<1.0	ND
Carbon tetrachloride	5	NS	<8.0	ND	<1.0	ND
Chlorobenzene	5	NS	<8.0	ND	<1.0	ND
Chloroethane	5	NS	<8.0	ND	<1.0	ND
Chloroform	7	NS	<8.0	ND	<1.0	ND
Chloromethane	5	NS	<8.0	ND	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	**41**		2.2	
cis-1,3-Dichloropropene	0.4	NS	<8.0	ND	<1.0	ND
Cyclohexane	None	NS	<8.0	ND	<1.0	ND
Dibromochloromethane	50	NS	<8.0	ND	<1.0	ND
Dichlorodifluoromethane	5	NS	<8.0	ND	<1.0	ND
Ethylbenzene	5	NS	<8.0	ND	<1.0	ND
Isopropylbenzene (Cumene)	5	NS	<8.0	ND	<1.0	ND
Methyl acetate	None	NS	<20	ND	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	NS	<8.0	ND	<1.0	ND
Methylcyclohexane	None	NS	<8.0	ND	<1.0	ND
Methylene Chloride	5	NS	<8.0	ND	<1.0	ND
Styrene	5	NS	<8.0	ND	<1.0	ND
Tetrachloroethene (PCE)	5	NS	<8.0	ND	<1.0	ND
Toluene	5	NS	<8.0	ND	<1.0	ND
trans-1,2-Dichloroethene	5	NS	<8.0	ND	<1.0	ND
trans-1,3-Dichloropropene	0.4	NS	<8.0	ND	<1.0	ND
Trichloroethene (TCE)	5	NS	**450**		**16**	
Trichlorofluoromethane	5	NS	<8.0	ND	<1.0	ND
Vinyl Chloride (VC)	2	NS	<8.0	ND	<1.0	ND
Xylenes (Total)	5	NS	<16	ND	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

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Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	IW2-1				
		Pre-ISCO	3/25/2022		9/29/2022	
1,1,1-Trichloroethane	5	ND	<1.0	ND	<8.0	ND
1,1,2,2-Tetrachloroethane	5	ND	<1.0	ND	<8.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5		<1.0	ND	<8.0	ND
1,1,2-Trichloroethane	1	ND	<1.0	ND	<8.0	ND
1,1-Dichloroethane	5	ND	<1.0	ND	<8.0	ND
1,1-Dichloroethene	5	ND	<1.0	ND	<8.0	ND
1,2,4-Trichlorobenzene	5		<1.0	ND	<8.0	ND
1,2-Dibromo-3-chloropropane	0.04		<1.0	ND	<8.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		<1.0	ND	<8.0	ND
1,2-Dichlorobenzene	3		<1.0	ND	<8.0	ND
1,2-Dichloroethane	0.6	ND	<1.0	ND	<8.0	ND
1,2-Dichloropropane	1	ND	<1.0	ND	<8.0	ND
1,3-Dichlorobenzene	3		<1.0	ND	<8.0	ND
1,4-Dichlorobenzene	4		<1.0	ND	<8.0	ND
2-Butanone (MEK)	50	ND	<10	ND	<80	ND
2-Hexanone	50		<5.0	ND	<40	ND
4-Methyl-2-pentanone (MIBK)	5	ND	<5.0	ND	<40	ND
Acetone	50	ND	<10	ND	<80	ND
Benzene	1	ND	<1.0	ND	<8.0	ND
Bromodichloromethane	50	ND	<1.0	ND	<8.0	ND
Bromoform	50	ND	<1.0	ND	<8.0	ND
Bromomethane	5	ND	<1.0	ND	<8.0	ND
Carbon disulfide	60		<1.0	ND	<8.0	ND
Carbon tetrachloride	5	ND	<1.0	ND	<8.0	ND
Chlorobenzene	5	ND	<1.0	ND	<8.0	ND
Chloroethane	5	ND	<1.0	ND	<8.0	ND
Chloroform	7	ND	<1.0	ND	<8.0	ND
Chloromethane	5	ND	<1.0	ND	<8.0	ND
cis-1,2-Dichloroethene (DCE)	5	**210**	2.1		**57**	
cis-1,3-Dichloropropene	0.4	ND	<1.0	ND	<8.0	ND
Cyclohexane	None		<1.0	ND	<8.0	ND
Dibromochloromethane	50		<1.0	ND	<8.0	ND
Dichlorodifluoromethane	5		<1.0	ND	<8.0	ND
Ethylbenzene	5	ND	<1.0	ND	<8.0	ND
Isopropylbenzene (Cumene)	5		<1.0	ND	<8.0	ND
Methyl acetate	None		<2.5	ND	<20	ND
Methyl tert-butyl ether (MTBE)	10		<1.0	ND	<8.0	ND
Methylcyclohexane	None		<1.0	ND	<8.0	ND
Methylene Chloride	5	**39 J**	<1.0	ND	<8.0	ND
Styrene	5	ND	<1.0	ND	<8.0	ND
Tetrachloroethene (PCE)	5	ND	<1.0	ND	<8.0	ND
Toluene	5	ND	<1.0	ND	<8.0	ND
trans-1,2-Dichloroethene	5	ND	<1.0	ND	<8.0	ND
trans-1,3-Dichloropropene	0.4	ND	<1.0	ND	<8.0	ND
Trichloroethene (TCE)	5	**3,900**	**15**		**280**	
Trichlorofluoromethane	5		<1.0	ND	<8.0	ND
Vinyl Chloride (VC)	2	ND	<1.0	ND	<8.0	ND
Xylenes (Total)	5	ND	<2.0	ND	<16	ND

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Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	IW2-3				
		Pre-ISCO	3/25/2022		9/29/2022	
1,1,1-Trichloroethane	5	ND	<1.0	ND	<1.0	ND
1,1,2,2-Tetrachloroethane	5	ND	<1.0	ND	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5		<1.0	ND	<1.0	ND
1,1,2-Trichloroethane	1	ND	<1.0	ND	<1.0	ND
1,1-Dichloroethane	5	ND	<1.0	ND	<1.0	ND
1,1-Dichloroethene	5	ND	<1.0	ND	<1.0	ND
1,2,4-Trichlorobenzene	5		<1.0	ND	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04		<1.0	ND	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		<1.0	ND	<1.0	ND
1,2-Dichlorobenzene	3		<1.0	ND	<1.0	ND
1,2-Dichloroethane	0.6	ND	<1.0	ND	<1.0	ND
1,2-Dichloropropane	1	ND	<1.0	ND	<1.0	ND
1,3-Dichlorobenzene	3		<1.0	ND	<1.0	ND
1,4-Dichlorobenzene	4		<1.0	ND	<1.0	ND
2-Butanone (MEK)	50	ND	<10	ND	<10	ND
2-Hexanone	50		<5.0	ND	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	**110**	<5.0	ND	<5.0	ND
Acetone	50	ND	<10	ND	<10	ND
Benzene	1	ND	<1.0	ND	<1.0	ND
Bromodichloromethane	50	ND	<1.0	ND	<1.0	ND
Bromoform	50	ND	<1.0	ND	<1.0	ND
Bromomethane	5	ND	<1.0	ND	<1.0	ND
Carbon disulfide	60		<1.0	ND	<1.0	ND
Carbon tetrachloride	5	ND	<1.0	ND	<1.0	ND
Chlorobenzene	5	ND	<1.0	ND	<1.0	ND
Chloroethane	5	ND	<1.0	ND	<1.0	ND
Chloroform	7	ND	<1.0	ND	<1.0	ND
Chloromethane	5	ND	<1.0	ND	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	**370**	2.3		1.3	
cis-1,3-Dichloropropene	0.4	ND	<1.0	ND	<1.0	ND
Cyclohexane	None		<1.0	ND	<1.0	ND
Dibromochloromethane	50		<1.0	ND	<1.0	ND
Dichlorodifluoromethane	5		<1.0	ND	<1.0	ND
Ethylbenzene	5	ND	<1.0	ND	<1.0	ND
Isopropylbenzene (Cumene)	5		<1.0	ND	<1.0	ND
Methyl acetate	None		<2.5	ND	<2.5	ND
Methyl tert-butyl ether (MTBE)	10		<1.0	ND	<1.0	ND
Methylcyclohexane	None		<1.0	ND	<1.0	ND
Methylene Chloride	5	**110 J**	<1.0	ND	<1.0	ND
Styrene	5	ND	<1.0	ND	<1.0	ND
Tetrachloroethene (PCE)	5	ND	<1.0	ND	<1.0	ND
Toluene	5	ND	<1.0	ND	<1.0	ND
trans-1,2-Dichloroethene	5	ND	<1.0	ND	<1.0	ND
trans-1,3-Dichloropropene	0.4	ND	<1.0	ND	<1.0	ND
Trichloroethene (TCE)	5	**6,000**	**27**		**25**	
Trichlorofluoromethane	5		<1.0	ND	<1.0	ND
Vinyl Chloride (VC)	2	ND	<1.0	ND	<1.0	ND
Xylenes (Total)	5	ND	<2.0	ND	<2.0	ND

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Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	MW05-10			
		Pre-ISCO	3/25/2022	9/29/2022	
1,1,1-Trichloroethane	5	ND	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	ND	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	NS	<1.0	ND
1,1,2-Trichloroethane	1	**180**	NS	<1.0	ND
1,1-Dichloroethane	5	ND	NS	<1.0	ND
1,1-Dichloroethene	5	**35**	NS	<1.0	ND
1,2,4-Trichlorobenzene	5	ND	NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04		NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		NS	<1.0	ND
1,2-Dichlorobenzene	3		NS	<1.0	ND
1,2-Dichloroethane	0.6	ND	NS	<1.0	ND
1,2-Dichloropropane	1		NS	<1.0	ND
1,3-Dichlorobenzene	3		NS	<1.0	ND
1,4-Dichlorobenzene	4		NS	<1.0	ND
2-Butanone (MEK)	50	1.4 J	NS	<10	ND
2-Hexanone	50		NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5		NS	<5.0	ND
Acetone	50	6.3 J	NS	<10	ND
Benzene	1		NS	<1.0	ND
Bromodichloromethane	50	ND	NS	<1.0	ND
Bromoform	50	ND	NS	<1.0	ND
Bromomethane	5		NS	<1.0	ND
Carbon disulfide	60		NS	<1.0	ND
Carbon tetrachloride	5	ND	NS	<1.0	ND
Chlorobenzene	5		NS	<1.0	ND
Chloroethane	5		NS	<1.0	ND
Chloroform	7	ND	NS	<1.0	ND
Chloromethane	5		NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	**35**	NS	1.7	
cis-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Cyclohexane	None		NS	<1.0	ND
Dibromochloromethane	50		NS	<1.0	ND
Dichlorodifluoromethane	5	ND	NS	<1.0	ND
Ethylbenzene	5	ND	NS	<1.0	ND
Isopropylbenzene (Cumene)	5		NS	<1.0	ND
Methyl acetate	None		NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10		NS	<1.0	ND
Methylcyclohexane	None		NS	<1.0	ND
Methylene Chloride	5	11.4	NS	<1.0	ND
Styrene	5	ND	NS	<1.0	ND
Tetrachloroethene (PCE)	5	ND	NS	0.67	J
Toluene	5	ND	NS	<1.0	ND
trans-1,2-Dichloroethene	5	ND	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Trichloroethene (TCE)	5	**160**	NS	**56**	
Trichlorofluoromethane	5		NS	<1.0	ND
Vinyl Chloride (VC)	2	ND	NS	<1.0	ND
Xylenes (Total)	5	ND	NS	<2.0	ND

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Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	MW05-21			
		Pre-ISCO	3/25/2022	9/29/2022	
1,1,1-Trichloroethane	5	NS	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	NS	NS	<1.0	ND
1,1,2-Trichloroethane	1	NS	NS	<1.0	ND
1,1-Dichloroethane	5	NS	NS	<1.0	ND
1,1-Dichloroethene	5	NS	NS	<1.0	ND
1,2,4-Trichlorobenzene	5	NS	NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	NS	NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	NS	NS	<1.0	ND
1,2-Dichlorobenzene	3	NS	NS	<1.0	ND
1,2-Dichloroethane	0.6	NS	NS	<1.0	ND
1,2-Dichloropropane	1	NS	NS	<1.0	ND
1,3-Dichlorobenzene	3	NS	NS	<1.0	ND
1,4-Dichlorobenzene	4	NS	NS	<1.0	ND
2-Butanone (MEK)	50	NS	NS	<10	ND
2-Hexanone	50	NS	NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	NS	NS	<5.0	ND
Acetone	50	NS	NS	<10	ND
Benzene	1	NS	NS	<1.0	ND
Bromodichloromethane	50	NS	NS	<1.0	ND
Bromoform	50	NS	NS	<1.0	ND
Bromomethane	5	NS	NS	<1.0	ND
Carbon disulfide	60	NS	NS	<1.0	ND
Carbon tetrachloride	5	NS	NS	<1.0	ND
Chlorobenzene	5	NS	NS	<1.0	ND
Chloroethane	5	NS	NS	<1.0	ND
Chloroform	7	NS	NS	<1.0	ND
Chloromethane	5	NS	NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	NS	NS	1.4	
cis-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Cyclohexane	None	NS	NS	<1.0	ND
Dibromochloromethane	50	NS	NS	<1.0	ND
Dichlorodifluoromethane	5	NS	NS	<1.0	ND
Ethylbenzene	5	NS	NS	<1.0	ND
Isopropylbenzene (Cumene)	5	NS	NS	<1.0	ND
Methyl acetate	None	NS	NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	NS	NS	<1.0	ND
Methylcyclohexane	None	NS	NS	<1.0	ND
Methylene Chloride	5	NS	NS	<1.0	ND
Styrene	5	NS	NS	<1.0	ND
Tetrachloroethene (PCE)	5	NS	NS	**19**	
Toluene	5	NS	NS	<1.0	ND
trans-1,2-Dichloroethene	5	NS	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	NS	NS	<1.0	ND
Trichloroethene (TCE)	5	NS	NS	2.2	
Trichlorofluoromethane	5	NS	NS	<1.0	ND
Vinyl Chloride (VC)	2	NS	NS	<1.0	ND
Xylenes (Total)	5	NS	NS	<2.0	ND

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Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	OB09-36			
		Pre-ISCO	3/25/2022	9/29/2022	
1,1,1-Trichloroethane	5	ND	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	ND	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5		NS	<1.0	ND
1,1,2-Trichloroethane	1	ND	NS	<1.0	ND
1,1-Dichloroethane	5	ND	NS	<1.0	ND
1,1-Dichloroethene	5	ND	NS	<1.0	ND
1,2,4-Trichlorobenzene	5		NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04		NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		NS	<1.0	ND
1,2-Dichlorobenzene	3		NS	<1.0	ND
1,2-Dichloroethane	0.6	ND	NS	<1.0	ND
1,2-Dichloropropane	1	ND	NS	<1.0	ND
1,3-Dichlorobenzene	3		NS	<1.0	ND
1,4-Dichlorobenzene	4		NS	<1.0	ND
2-Butanone (MEK)	50	ND	NS	<10	ND
2-Hexanone	50		NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	ND	NS	<5.0	ND
Acetone	50	ND	NS	4.4	J
Benzene	1	ND	NS	<1.0	ND
Bromodichloromethane	50	ND	NS	<1.0	ND
Bromoform	50	ND	NS	<1.0	ND
Bromomethane	5	ND	NS	<1.0	ND
Carbon disulfide	60		NS	<1.0	ND
Carbon tetrachloride	5	ND	NS	<1.0	ND
Chlorobenzene	5	ND	NS	<1.0	ND
Chloroethane	5	ND	NS	<1.0	ND
Chloroform	7	ND	NS	<1.0	ND
Chloromethane	5	ND	NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	**12**	NS	<1.0	ND
cis-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Cyclohexane	None		NS	<1.0	ND
Dibromochloromethane	50		NS	<1.0	ND
Dichlorodifluoromethane	5		NS	<1.0	ND
Ethylbenzene	5	ND	NS	<1.0	ND
Isopropylbenzene (Cumene)	5		NS	<1.0	ND
Methyl acetate	None		NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10		NS	<1.0	ND
Methylcyclohexane	None		NS	<1.0	ND
Methylene Chloride	5	3.2 J	NS	<1.0	ND
Styrene	5	ND	NS	<1.0	ND
Tetrachloroethene (PCE)	5	ND	NS	<1.0	ND
Toluene	5	ND	NS	<1.0	ND
trans-1,2-Dichloroethene	5	ND	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Trichloroethene (TCE)	5	**149**	NS	**6.8**	
Trichlorofluoromethane	5		NS	<1.0	ND
Vinyl Chloride (VC)	2	ND	NS	<1.0	ND
Xylenes (Total)	5	ND	NS	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	OB09-38			
		Pre-ISCO	3/25/2022	9/29/2022	
1,1,1-Trichloroethane	5	ND	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	ND	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	NS	<1.0	ND
1,1,2-Trichloroethane	1	ND	NS	<1.0	ND
1,1-Dichloroethane	5	ND	NS	<1.0	ND
1,1-Dichloroethene	5	ND	NS	<1.0	ND
1,2,4-Trichlorobenzene	5		NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04		NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		NS	<1.0	ND
1,2-Dichlorobenzene	3		NS	<1.0	ND
1,2-Dichloroethane	0.6	ND	NS	<1.0	ND
1,2-Dichloropropane	1	ND	NS	<1.0	ND
1,3-Dichlorobenzene	3		NS	<1.0	ND
1,4-Dichlorobenzene	4		NS	<1.0	ND
2-Butanone (MEK)	50		NS	<10	ND
2-Hexanone	50		NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	ND	NS	<5.0	ND
Acetone	50	ND	NS	3.4	J
Benzene	1	ND	NS	<1.0	ND
Bromodichloromethane	50	ND	NS	<1.0	ND
Bromoform	50	ND	NS	<1.0	ND
Bromomethane	5	ND	NS	<1.0	ND
Carbon disulfide	60		NS	<1.0	ND
Carbon tetrachloride	5	ND	NS	<1.0	ND
Chlorobenzene	5	ND	NS	<1.0	ND
Chloroethane	5	ND	NS	<1.0	ND
Chloroform	7	ND	NS	<1.0	ND
Chloromethane	5		NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	**8**	NS	**5.7**	
cis-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Cyclohexane	None		NS	<1.0	ND
Dibromochloromethane	50		NS	<1.0	ND
Dichlorodifluoromethane	5		NS	<1.0	ND
Ethylbenzene	5	ND	NS	<1.0	ND
Isopropylbenzene (Cumene)	5		NS	<1.0	ND
Methyl acetate	None		NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10		NS	<1.0	ND
Methylcyclohexane	None		NS	<1.0	ND
Methylene Chloride	5	ND	NS	<1.0	ND
Styrene	5	ND	NS	<1.0	ND
Tetrachloroethene (PCE)	5	ND	NS	<1.0	ND
Toluene	5	ND	NS	<1.0	ND
trans-1,2-Dichloroethene	5	ND	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Trichloroethene (TCE)	5	**49**	NS	**22.0**	
Trichlorofluoromethane	5		NS	<1.0	ND
Vinyl Chloride (VC)	2	ND	NS	<1.0	ND
Xylenes (Total)	5	ND	NS	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

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J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	OW1-1				
		Pre-ISCO	3/25/2022		9/29/2022	
1,1,1-Trichloroethane	5	ND	<1.0	ND	<5.0	ND
1,1,2,2-Tetrachloroethane	5	ND	<1.0	ND	<5.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5		<1.0	ND	<5.0	ND
1,1,2-Trichloroethane	1	ND	<1.0	ND	<5.0	ND
1,1-Dichloroethane	5	ND	<1.0	ND	<5.0	ND
1,1-Dichloroethene	5	ND	0.52	J	<5.0	ND
1,2,4-Trichlorobenzene	5		<1.0	ND	<5.0	ND
1,2-Dibromo-3-chloropropane	0.04		<1.0	ND	<5.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		<1.0	ND	<5.0	ND
1,2-Dichlorobenzene	3		<1.0	ND	<5.0	ND
1,2-Dichloroethane	0.6	ND	<1.0	ND	<5.0	ND
1,2-Dichloropropane	1	ND	<1.0	ND	<5.0	ND
1,3-Dichlorobenzene	3		<1.0	ND	<5.0	ND
1,4-Dichlorobenzene	4		<1.0	ND	<5.0	ND
2-Butanone (MEK)	50	ND	<10	ND	<50	ND
2-Hexanone	50		<5.0	ND	<25	ND
4-Methyl-2-pentanone (MIBK)	5	ND	<5.0	ND	<25	ND
Acetone	50	ND	<10	ND	<50	ND
Benzene	1	ND	<1.0	ND	<5.0	ND
Bromodichloromethane	50	ND	<1.0	ND	<5.0	ND
Bromoform	50	ND	<1.0	ND	<5.0	ND
Bromomethane	5	ND	<1.0	ND	<5.0	ND
Carbon disulfide	60		<1.0	ND	<5.0	ND
Carbon tetrachloride	5	ND	<1.0	ND	<5.0	ND
Chlorobenzene	5	ND	<1.0	ND	<5.0	ND
Chloroethane	5	ND	<1.0	ND	<5.0	ND
Chloroform	7	ND	<1.0	ND	<5.0	ND
Chloromethane	5	ND	<1.0	ND	<5.0	ND
cis-1,2-Dichloroethene (DCE)	5	**470**	**11**		**8.3**	
cis-1,3-Dichloropropene	0.4	ND	<1.0	ND	<5.0	ND
Cyclohexane	None		<1.0	ND	<5.0	ND
Dibromochloromethane	50		<1.0	ND	<5.0	ND
Dichlorodifluoromethane	5		<1.0	ND	<5.0	ND
Ethylbenzene	5	ND	<1.0	ND	<5.0	ND
Isopropylbenzene (Cumene)	5		<1.0	ND	<5.0	ND
Methyl acetate	None		<2.5	ND	<13	ND
Methyl tert-butyl ether (MTBE)	10		<1.0	ND	<5.0	ND
Methylcyclohexane	None		<1.0	ND	<5.0	ND
Methylene Chloride	5	**170 J**	<1.0	ND	<5.0	ND
Styrene	5	ND	<1.0	ND	<5.0	ND
Tetrachloroethene (PCE)	5	**34**	3.2		3.0	J
Toluene	5	ND	<1.0	ND	<5.0	ND
trans-1,2-Dichloroethene	5	ND	1.2		<5.0	ND
trans-1,3-Dichloropropene	0.4		<1.0	ND	<5.0	ND
Trichloroethene (TCE)	5	**2,700**	**330**		**240**	
Trichlorofluoromethane	5		<1.0	ND	<5.0	ND
Vinyl Chloride (VC)	2	ND	<1.0	ND	<5.0	ND
Xylenes (Total)	5	ND	<2.0	ND	<10	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

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ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	OW1-4				
		Pre-ISCO	3/25/2022		9/29/2022	
1,1,1-Trichloroethane	5	ND	<8.0	ND	<20.0	ND
1,1,2,2-Tetrachloroethane	5	ND	<8.0	ND	<20.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5		<8.0	ND	<20.0	ND
1,1,2-Trichloroethane	1		<8.0	ND	<20.0	ND
1,1-Dichloroethane	5	ND	<8.0	ND	<20.0	ND
1,1-Dichloroethene	5	ND	<8.0	ND	<20.0	ND
1,2,4-Trichlorobenzene	5		<8.0	ND	<20.0	ND
1,2-Dibromo-3-chloropropane	0.04		<8.0	ND	<20.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}		<8.0	ND	<20.0	ND
1,2-Dichlorobenzene	3		<8.0	ND	<20.0	ND
1,2-Dichloroethane	0.6	ND	<8.0	ND	<20.0	ND
1,2-Dichloropropane	1	ND	<8.0	ND	<20.0	ND
1,3-Dichlorobenzene	3		<8.0	ND	<20.0	ND
1,4-Dichlorobenzene	4		<8.0	ND	<20.0	ND
2-Butanone (MEK)	50	ND	<80	ND	<200	ND
2-Hexanone	50		<40	ND	<100	ND
4-Methyl-2-pentanone (MIBK)	5	ND	<40	ND	<100	ND
Acetone	50	ND	<80	ND	<200	ND
Benzene	1	ND	<8.0	ND	<20.0	ND
Bromodichloromethane	50	ND	<8.0	ND	<20.0	ND
Bromoform	50	ND	<8.0	ND	<20.0	ND
Bromomethane	5	ND	<8.0	ND	<20.0	ND
Carbon disulfide	60		<8.0	ND	<20.0	ND
Carbon tetrachloride	5	ND	<8.0	ND	<20.0	ND
Chlorobenzene	5	ND	<8.0	ND	<20.0	ND
Chloroethane	5	ND	<8.0	ND	<20.0	ND
Chloroform	7	ND	<8.0	ND	<20.0	ND
Chloromethane	5	ND	<8.0	ND	<20.0	ND
cis-1,2-Dichloroethene (DCE)	5	**13 J**	**17**		**36**	
cis-1,3-Dichloropropene	0.4		<8.0	ND	<20.0	ND
Cyclohexane	None		<8.0	ND	<20.0	ND
Dibromochloromethane	50		<8.0	ND	<20.0	ND
Dichlorodifluoromethane	5		<8.0	ND	<20.0	ND
Ethylbenzene	5	ND	<8.0	ND	<20.0	ND
Isopropylbenzene (Cumene)	5		<8.0	ND	<20.0	ND
Methyl acetate	None		<20	ND	<50	ND
Methyl tert-butyl ether (MTBE)	10		<8.0	ND	<20.0	ND
Methylcyclohexane	None		<8.0	ND	<20.0	ND
Methylene Chloride	5	**12 J**	<8.0	ND	<20.0	ND
Styrene	5	ND	<8.0	ND	<20.0	ND
Tetrachloroethene (PCE)	5	ND	<8.0	ND	<20.0	ND
Toluene	5	ND	<8.0	ND	<20.0	ND
trans-1,2-Dichloroethene	5	ND	<8.0	ND	<20.0	ND
trans-1,3-Dichloropropene	0.4	ND	<8.0	ND	<20.0	ND
Trichloroethene (TCE)	5	**320**	**400**		**700**	
Trichlorofluoromethane	5		<8.0	ND	<20.0	ND
Vinyl Chloride (VC)	2	ND	<8.0	ND	<20.0	ND
Xylenes (Total)	5	ND	<16	ND	<40	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

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ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

J - Results is less than the RL but greater than or equal to the MDL - concentration is an approximate value.

Compound Above Standard

See analytical reports for additional qualifiers and details.

Table No. 3
Summary of 2022 Groundwater Analytical Results

Pass and Seymour - Boyd Avenue Site
Site No. C734102

VOCs by EPA 8660 µg/L (ppb)	NYSDEC STANDARD	OW2-2			
		Pre-ISCO	3/25/2022	9/29/2022	
1,1,1-Trichloroethane	5	ND	NS	<1.0	ND
1,1,2,2-Tetrachloroethane	5	ND	NS	<1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	NS	<1.0	ND
1,1,2-Trichloroethane	1	ND	NS	<1.0	ND
1,1-Dichloroethane	5	ND	NS	<1.0	ND
1,1-Dichloroethene	5	ND	NS	<1.0	ND
1,2,4-Trichlorobenzene	5	ND	NS	<1.0	ND
1,2-Dibromo-3-chloropropane	0.04	ND	NS	<1.0	ND
1,2-Dibromoethane (EDB)	6×10^{-4}	ND	NS	<1.0	ND
1,2-Dichlorobenzene	3	ND	NS	<1.0	ND
1,2-Dichloroethane	0.6	ND	NS	<1.0	ND
1,2-Dichloropropane	1	ND	NS	<1.0	ND
1,3-Dichlorobenzene	3	ND	NS	<1.0	ND
1,4-Dichlorobenzene	4	ND	NS	<1.0	ND
2-Butanone (MEK)	50	ND	NS	<10	ND
2-Hexanone	50	ND	NS	<5.0	ND
4-Methyl-2-pentanone (MIBK)	5	ND	NS	<5.0	ND
Acetone	50	ND	NS	7.1	J
Benzene	1	ND	NS	<1.0	ND
Bromodichloromethane	50	ND	NS	<1.0	ND
Bromoform	50	ND	NS	<1.0	ND
Bromomethane	5	ND	NS	<1.0	ND
Carbon disulfide	60	ND	NS	<1.0	ND
Carbon tetrachloride	5	ND	NS	<1.0	ND
Chlorobenzene	5	ND	NS	<1.0	ND
Chloroethane	5	ND	NS	<1.0	ND
Chloroform	7	ND	NS	<1.0	ND
Chloromethane	5	ND	NS	<1.0	ND
cis-1,2-Dichloroethene (DCE)	5	**140**	NS	1.8	
cis-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Cyclohexane	None	ND	NS	<1.0	ND
Dibromochloromethane	50	ND	NS	<1.0	ND
Dichlorodifluoromethane	5	ND	NS	<1.0	ND
Ethylbenzene	5	ND	NS	<1.0	ND
Isopropylbenzene (Cumene)	5	ND	NS	<1.0	ND
Methyl acetate	None	ND	NS	<2.5	ND
Methyl tert-butyl ether (MTBE)	10	ND	NS	<1.0	ND
Methylcyclohexane	None	ND	NS	<1.0	ND
Methylene Chloride	5	**20 J**	NS	<1.0	ND
Styrene	5	ND	NS	<1.0	ND
Tetrachloroethene (PCE)	5	ND	NS	<1.0	ND
Toluene	5	ND	NS	<1.0	ND
trans-1,2-Dichloroethene	5	ND	NS	<1.0	ND
trans-1,3-Dichloropropene	0.4	ND	NS	<1.0	ND
Trichloroethene (TCE)	5	**1,200**	NS	**9.7**	
Trichlorofluoromethane	5	ND	NS	<1.0	ND
Vinyl Chloride (VC)	2	ND	NS	<1.0	ND
Xylenes (Total)	5	ND	NS	<2.0	ND

Notes: All concentrations in micrograms per liter (µg/L) ~ parts per billion (ppb) unless noted otherwise.

NYSDEC Standard = Class GA water quality standards and guidance values listed in the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, June 1998) and subsequent corrections/addendums.

ND - Not Detected at the reporting limit (RL) or Method Detection Limit (MDL) or Estimated Detection Limit (EDL).

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Compound Above Standard

See analytical reports for additional qualifiers and details.

Table No. 4
2022 SSDS Pressure Gauge Readings

READING DATE	S1 Lab	S2 Northside	S3 East
01/2022	-2.1	0.0	-2.7
02/2022	-2.2	0.0	-2.6
03/2022	-2.7	-1.0	-4.7
04/2022	0.0	0.0	0.0
05/2022	-1.2	-1.5	-1.3
06/2022	-1.3	-1.5	-1.3
07/2022	-1.3	-1.4	-1.3
08/2022	-1.2	-1.5	-1.3
09/2022	-1.2	-1.5	-1.2
10/2022	-9.0	-5.0	-3.5
11/2022	-8.0	-5.0	-3.6
12/2022	-8.0	-5.0	-3.5

Notes:

The unit for all readings is inches of water column (in. WC).

All readings are negative pressure readings.

Minimum negative pressure required is -0.002 in. WC.

New pressure gauge installed at S2 on March 17th.

New fan motor installed on March 17th.

Fan bearings failed & system down on March 31st. New fan ordered but back-ordered.

Temporary fan installed on May 10th.

New fan installed on October 7th.